

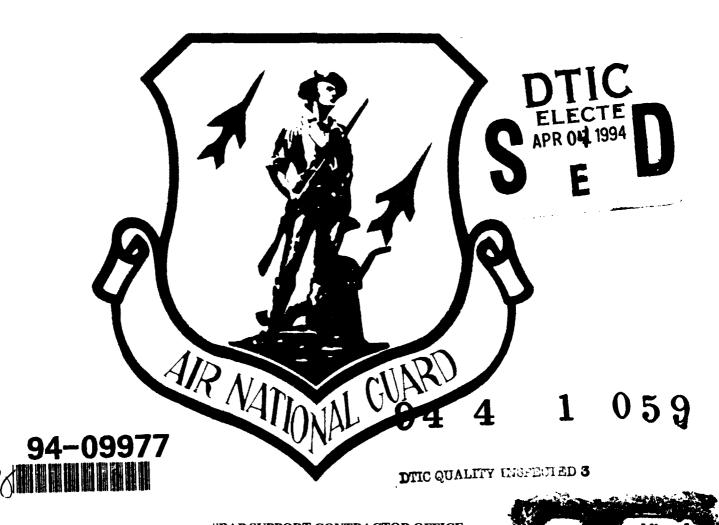
INSTALLATION RESTORATION PROGRAM

AD-A277 707

INDIANA AIR NATIONAL GUARD 122nd TACTICAL FIGHTER WING FORT WAYNE, INDIANA

SITE INSPECTION REPORT

FINAL



MAZWRAP SUPPORT CONTRACTOR OFFICE

Oak Ridge, Tennessee 37831
Operated by MARTIN MARIETTA ENERGY SYSTEMS, INC.
For the U.S. DEPARTMENT OF ENERGY under contract DE-AC05-840R21400

AIR NATIONAL GUARD INSTALLATION RESTORATION PROGRAM INDIANA AIR NATIONAL GUARD 122nd TACTICAL FIGHTER WING FORT WAYNE, INDIANA

SITE INSPECTION REPORT FINAL

Submitted to:

Air National Guard Readiness Center Andrews Air Force Base, Maryland

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Submitted by:

Hazardous Waste Remedial Actions Program
Martin Marietta Energy Systems, Inc.
Oak Ridge, Tennessee

For the:

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LIST OF ACRONYMS AND ABBREVIATIONS

ADI Average Daily Intake

ANGB Air National Guard Base

ANGRC Air National Guard Readiness Center

ARAR Applicable or Relevant and Appropriate Requirement

ASTM American Society for Testing and Materials

BGS Below Ground Surface

BTEX Benzene, Toluene, Ethylbenzene, and Xylenes

CLP Contract Laboratory Program

CRDL Contract Required Detection Limit

DOD U.S. Department of Defense

DOE U.S. Department of Energy

DOO Data Quality Objective

EIS Environmental Impact Statement

Energy Systems Martin Marietta Energy Systems, Inc.

EPA U.S. Environmental Protection Agency

FEMA Federal Emergency Management Agency

FFS Focused Feasibility Study

FID Flame Ionization Detector

FS Feasibility Study

FTA Fire Training Area

GC/MS Gas Chromatography/Mass Spectrometry

HAZWRAP Hazardous Waste Remedial Actions Program

HEAST Hazard Evaluation Assessment Summary Table

HI Hazard Index

HMTC Hazardous Materials Technical Center

HO Hazard Quotient

HWCA Hazardous Waste Collection Area

ID Inside Diameter

List of Acronyms and Abbreviations (Continued)

IDEM Indiana Department of Environmental Management

IDNR Indiana Department of Natural Resources

IRIS Integrated Risk Information System

IRP Installation Restoration Program

LCS Laboratory Control Sample

LOAEL Lowest-Observable-Adverse-Effect Level

MCL Maximum Contaminant Level

MCLG Maximum Contaminant Level Goal

MSL Mean Sea Level

MS/MSD Matrix Spike/Matrix Spike Duplicate

NCP National Contingency Plan

NGB National Guard Bureau

NIST National Institute of Science and Technology

NOAA National Oceanographic and Atmospheric Administration

NOAEL No-Observable-Adverse-Effect Level

OD Outside Diameter

OER Office of Environmental Response

PA Preliminary Assessment

PAH Polynuclear Aromatic Hydrocarbon

PARCC Precision, Accuracy, Representativeness, Comparability, and Completeness

PCB Polychlorinated Biphenyl

PDF Probability Density Function

PMCL Proposed Maximum Contaminant Level

PMCLG Proposed Maximum Contaminant Level Goal

POL Petroleum, Oil, and Lubricants

PRP Potentially Responsible Party

QA/QC Quality Assurance/Quality Control

RD Remedial Design

RfC Reference Concentration

List of Acronyms and Abbreviations (Continued)

RfD Reference Dose

RI Remedial Investigation

RM Remedial Measure

RME Reasonable Maximum Exposure

RPD Relative Percent Difference

SAIC Science Applications International Corporation

SI Site Inspection

SOP Standard Operating Procedure

SOW Statement of Work

SVOC Semivolatile Organic Compound

TCLP Toxicity Characteristic Leaching Procedure

TDS Total Dissolved Solids

TIC Tentatively Identified Compound

TPH Total Petroleum Hydrocarbon

TRC Tracer Research Corporation

USGS U.S. Geodetic Survey

UST Underground Storage Tank

VOC Volatile Organic Compound

EXECUTIVE SUMMARY

This Site Inspection (SI) Report presents the findings of an SI conducted under the U.S. Department of Defense (DOD) Installation Restoration Program (IRP) at three sites at the 122nd Tactical Fighter Wing, Indiana Air National Guard Base (ANGB), Fort Wayne, Indiana. The SI was conducted in two phases; the first phase was planned and conducted to obtain data to confirm the presence or absence of suspected environmental contamination at the three sites. The Phase I activities were conducted during August and September 1990. During Phase activities, contamination in site soils was found. It also was determined that additional data were needed to fill in data gaps that were identified during the evaluation of field and laboratory data. Accordingly, Phase II activities were planned to obtain data to:

- Confirm the presence of contaminants detected during Phase I
- Delineate the extent of contamination found
- Evaluate the risk posed by any verified contamination to human health and the environment.

Phase II activities were conducted during October and November 1991. This report presents the findings and conclusions from the overall SI activities and presents recommendations for the three significant investigated.

Site 1 - Former Fire Training Area (FTA) was in operation from the late 1950s to 1972. An estimated 9,500 gallons of jet fuel and some waste oil and gasoline were used at this site during the period of operation. Site 3 - Hazardous Waste Collection Area (HWCA) is a 40-foot square gravel area enclosed by a fence. Since 1954, waste oils, solvents, paints, and thinners from various shops were collected and stored in drums at this location. Site 4 - POL Spill Area was the location of a 5,000- to 5,300-gallon jet fuel spill in 1968. The fuel was flushed from the immediate area and into the surface drainage system with approximately 200,000 gallons of water.

Phase I of the SI program included drilling and sampling soil borings, installing and sampling monitoring wells and piezometers, sediment sampling, soil gas testing, static water level

measuring, and aquifer testing. Phase II of the SI included additional drilling and sampling of soil borings, sampling of existing monitoring wells and piezometers, static water level measuring, and sediment sampling. U.S. Environmental Protection Agency (EPA) protocols established for sampling, chain of custody, and quality assurance/quality control (QA/QC) were followed during the SI program. Results from the 1991 SI activities confirmed the overall results of the 1990 program and provided additional information concerning the extent of contamination at the sites.

In evaluating the significance of contamination detected at Site 1, it should be noted that the former FTA surface where the actual burning occurred is located approximately 10 to 12 feet below current ground surface under a layer of clay-rich fill. Contaminants related to fire training activities conducted at this site are believed to be at the former surface or below the former surface.

Contaminants were detected in the fill layer, but are not considered to be related to fire training activities that occurred at the site. The significance of the presence of these contaminants was evaluated through the performance of a preliminary risk evaluation.

Contamination at Site 1 resulting from fire training activities appears to be present at and below the old surface in an area immediately downslope from the former FTA, extending 60 to 80 feet west of the burn area. The western extent of contamination is estimated to be less than 85 feet from the burn area. Contaminants were not detected in subsurface soils at depths greater than 5 feet below the former FTA surface. The contamination consists of benzene, toluene, ethylbenzene and xylenes (BTEX) compounds that are major components of aviation fuel, and semivolatile organic compounds (SVOCs) that includes a list of several polynuclear aromatic hydrocarbons (PAHs). PAHs are products of combustion and typically are found in burn areas.

No contaminants were detected in the groundwater at Site 1. This is consistent with the soil sampling results, which indicate that contaminants have not migrated beyond 5 feet below the former FTA surface. The thick clay layer that exists throughout the subsurface at the site appears to confine vertical migration of contaminants within close proximity of the former FTA surface.

The risk evaluation conducted for exposure to contaminants at the site showed that carcinogenic and noncarcinogenic risks to public health are within the acceptable range for current and future use scenarios. Based on the evaluation of analytical results, site geology, and risks to human health and the environment, it appears that the overall significance of the observed nature and extent of contamination is minimal.

At Site 3 - HWCA, the contamination in soils consists primarily of oil and grease. Contamination at this site is within the fence that encloses the drum storage area. The contamination is predominantly in the top 4 feet of soils, which also coincides with the thickness of a sand and gravel layer in place within the fenced area. The results of the groundwater analyses show that the underlying aquifer has not been impacted. This is consistent with the conclusion that contamination (consisting of mostly oils and grease) is predominantly in the top 4 feet of soils and has not migrated toward the groundwater table.

The results of the preliminary risk evaluation conducted for Site 3 show that current carcinogenic and noncarcinogenic risks to Base personnel and future risks to onsite construction workers are within the acceptable range.

At Site 4 - POL Spill Area, the analytical results of soil, groundwater, and sediment samples collected show that there is minimal residual contamination at the site resulting from the spill that occurred in 1968. Groundwater at the site has not been impacted; in addition, potential for contaminants to migrate to groundwater is minimal because of the dense clay layer that comprises the subsurface geology.

Other factors that reduce the significance of the low contamination detected at Site 4 include limited access to the site; absence of threatened or endangered species or critical habitats; and no residences, groundwater wells, or surface water resources within 1/4 mile of the site. In addition, the former underground storage tank (UST) system was replaced with an aboveground system built in accordance with regulatory requirements.

A preliminary qualitative evaluation of impacts to the ecology shows that no threatened or endangered species are on Base, and no critical habitats that could be impacted by the contaminants observed at the sites. Therefore, no further data collection or remedial actions are required for these three sites under the IRP. It is recommended, however, that appropriate operating procedures for Site 3 are instituted and followed to minimize the potential for future spills to impact the site. A concrete pad with a surrounding berm or other containment procedure should be considered.

1. INTRODUCTION

This report documents the Site Inspection (SI) activities that Science Applications International Corporation (SAIC) conducted at the 122nd Tactical Fighter Wing, Indiana Air National Guard Base (ANGB), Fort Wayne, Indiana (hereinafter referred to as Indiana ANGB or the Base). The SI was performed under the U.S. Department of Defense (DOD) Installation Restoration Program (IRP). As part of the IRP, the Air Force has entered into an interagency agreement with the U.S. Department of Energy (DOE) under which DOE provides technical assistance in implementing the IRP. Martin Marietta Energy Systems, Inc. (Energy Systems), under contract with DOE, is responsible for managing this effort under the interagency agreement through its Hazardous Waste Remedial Actions Program (HAZWRAP) Division. SAIC provides support for this investigation through an existing general order agreement with HAZWRAP.

1.1 INSTALLATION RESTORATION PROGRAM OBJECTIVES AND SEQUENCE

The objectives of the IRP are to identify, quantify, and evaluate feasible remedies for environmental problems caused by hazardous materials used or disposed of at DOD installations. The five phases that constitute the IRP process and the purpose and activities associated with each phase are presented below:

- Preliminary Assessment A Preliminary Assessment (PA) is performed to identify and evaluate the type and location of suspected problems associated with past hazardous waste handling procedures, disposal sites, and spill sites. This is accomplished through interviews with past and present Base employees, historical records searches, and visual site inspections. In addition, detailed geologic, hydrologic, meteorologic, land use, and environmental data for the study area are gathered. A detailed analysis of all information obtained identifies sites of concern. The PA for Indiana ANGB was completed by the Hazardous Materials Technical Center (HMTC) in April 1988.
- Site Inspection The purpose of an SI is to acquire the necessary data to either confirm the presence or absence of suspected environmental contamination at each identified site of concern and to assess the potential risks to human health, welfare, and the environment. The SI includes identification of specific chemical contaminants and their concentrations in environmental media and evaluates the potential for contaminant migration through site-specific hydrogeologic determinations. SAIC performed Phase I of the SI for Indiana ANGB in 1990 and Phase II in 1991.

- Remedial Investigation A Remedial Investigation (RI) is conducted to acquire the
 necessary data to define the extent of confirmed environmental contamination and to
 assess further the associated potential risks to human health, welfare, and the
 environment. The RI quantifies the magnitude and extent of contamination at the
 sites under investigation and identifies the specific chemical contaminants present and
 their concentrations in environmental media. A determination also is made as to the
 potential for contaminant migration by assessing site-specific hydrogeologic and
 contaminant characteristics.
- Feasibility Study The objective of a Feasibility Study (FS) is to develop the remedial action alternative that mitigates confirmed environmental contamination at each site and meets the applicable or relevant and appropriate requirements (ARARs). The FS considers risk assessments and cost benefit analyses in providing the necessary data, direction, and documented supportive rationale to acquire regulatory concurrence (Federal, state, and local) with the recommended remedial alternative. The FS evaluates, develops, and provides recommendations for remedial actions at each site where remediation is required.
- Remedial Design The Remedial Design (RD) phase provides engineering design drawings and construction specifications required to implement the recommended remedial action selected through the FS process. Implementation of the remediation plan requires appropriate regulatory acceptance.

1.2 PROJECT BACKGROUND AND PURPOSE

As part of the IRP, HMTC completed a PA of Indiana ANGB for the Air National Guard Readiness Center (ANGRC) in April 1988. The PA identified and evaluated the type and location of potential problem areas through interviews with past and present Base employees, historical records searches, and visual site inspections. In addition, environmental and land use data were collected for the area of study and reported in the PA. The PA indicated that the potential for contamination of surface water, soils, and groundwater existed at the following four sites and recommended further investigation:

- Site 1 Former Fire Training Area
- Site 2 Old Motor Pool Area
- Site 3 Hazardous Waste Collection Area
- Site 4 POL Spill Area.

The ANGRC specifically requested the support of DOE in assessing the extent of possible contamination at Site 1 - Former Fire Training Area, Site 3 - Hazardous Waste Collection Area,

and Site 4 - POL Spill Area. The lead agency for investigation of Site 2 - Old Motor Pool Area is the U.S. Army Corps of Engineers (USACOE). Site 2 was not investigated under the IRP as part of this SI because DOD may be a potentially responsible party (PRP). Therefore, Site 2 was investigated under a project managed by the USACOE following the guidelines of state and Federal regulatory agencies. As a result of this investigation, the USACOE has taken corrective measures to remove an abandoned UST at Site 2 and address potential petroleum contamination at the site. In addition, ANGRC has begun activities to investigate a potential PCB spill area and assess the potential presence of other USTs at the site.

Following the PA, the first phase of the SI was planned to collect data that would confirm the presence or absence of suspected environmental contamination at the three sites (i.e., Sites 1, 3, and 4). Phase I activities began August 13, 1990 and ended September 10, 1990. During Phase I, soil contamination was detected at the three sites. However, it was determined that additional investigations were needed to fill in data gaps. Phase II was planned to collect additional data to:

- Confirm the presence of contaminants detected during Phase I
- Delineate the extent of contamination found
- Evaluate the risk posed by any confirmed contamination to human health and the environment.

Phase II activities began October 28, 1991 and ended November 7, 1991. This report summarizes the results from both phases of field activities. The evaluation of the significance of field and analytical results has been consolidated using the results obtained during Phases I and II of the SI.

1.3 REPORT ORGANIZATION

This SI Report contains the following sections:

• Section 1. Introduction — The remainder of this section summarizes the history of Indiana ANGB, the specifics of each individual site, and the previous studies conducted at Indiana ANGB.

- Section 2. Field Program The activities, methods, and procedures used to
 determine the hydrogeologic conditions, contaminant characteristics, and extent of
 contamination at the sites under investigation at Indiana ANGB are described in this
 section. Background sampling and the disposal of wastes generated during the SI
 field program also are addressed.
- Section 3. Results and Significance of Findings This section provides the geologic, hydrogeologic, and analytical results obtained from both phases of the SI program along with the significance of these results.
- Section 4. Preliminary Risk Evaluation In this section, the results of the sampling and analysis are evaluated, a conceptual model for each site is prepared, and potential receptors are identified. In addition, the sampling results are compared to ARARs and potential risks to human health are quantified.
- Section 5. Conclusions and Recommendations This section summarizes the results, conclusions based on the SI results, and recommendations for any future IRP activities at each site.

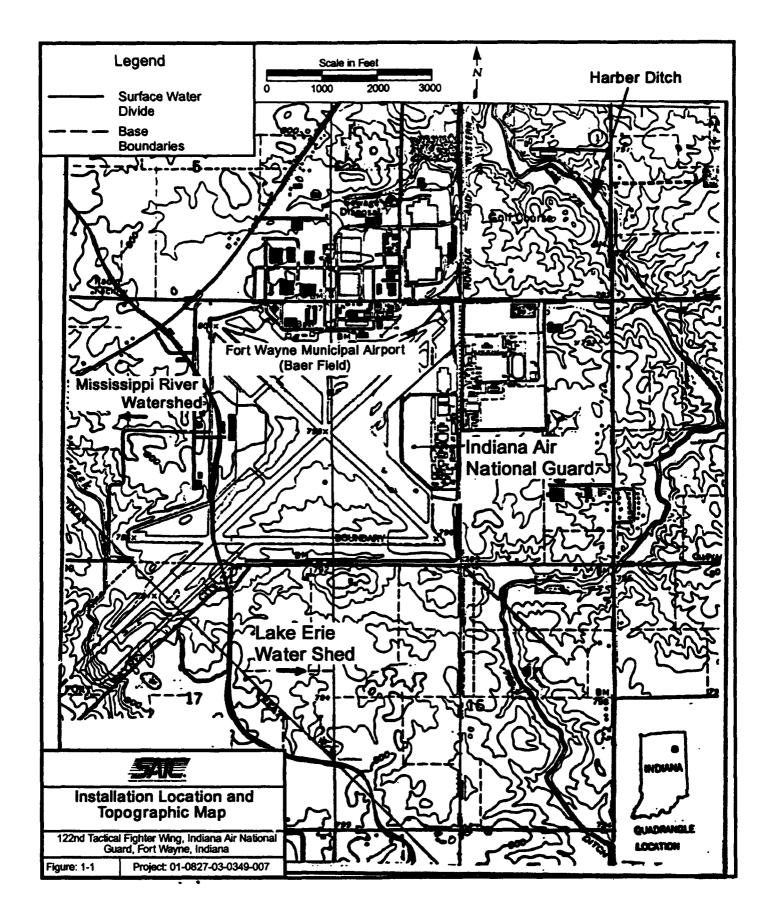
A reference list and a list of acronyms and abbreviations are included in this report. In addition, appendices are provided, which include a summary of analytical results, aquifer test methods and results, monitoring well and soil boring completion logs, survey data, chemical results, a complete quality assurance/quality control (QA/QC) evaluation, risk evaluation methods, and a summary of the site characterization data for Phases I and II.

1.4 FACILITY BACKGROUND

The history of the Indiana ANGB and the sites that were investigated as part of this SI are described in the following sections.

1.4.1 Facility History

The 122nd Tactical Fighter Wing, Indiana Air National Guard, is located in Allen County, Indiana on the southwest side of the city of Fort Wayne. As shown in Figure 1-1, Fort Wayne Municipal Airport (formerly Baer Field) is located immediately west of the Base. South and east of the Base, the land is mostly agricultural, and commercial property lies to the north. The Base currently occupies approximately 90 acres of land with plans to expand to 160 acres.



The 122nd Tactical Fighter Wing was established at Fort Wayne in 1954. Past Base operations that generated potentially hazardous materials include aircraft maintenance, weapons maintenance, liquid fuels management, fire fighting training, and vehicle maintenance. Waste oils, fuels, cleaners, solvents, and strippers were generated by these Base activities.

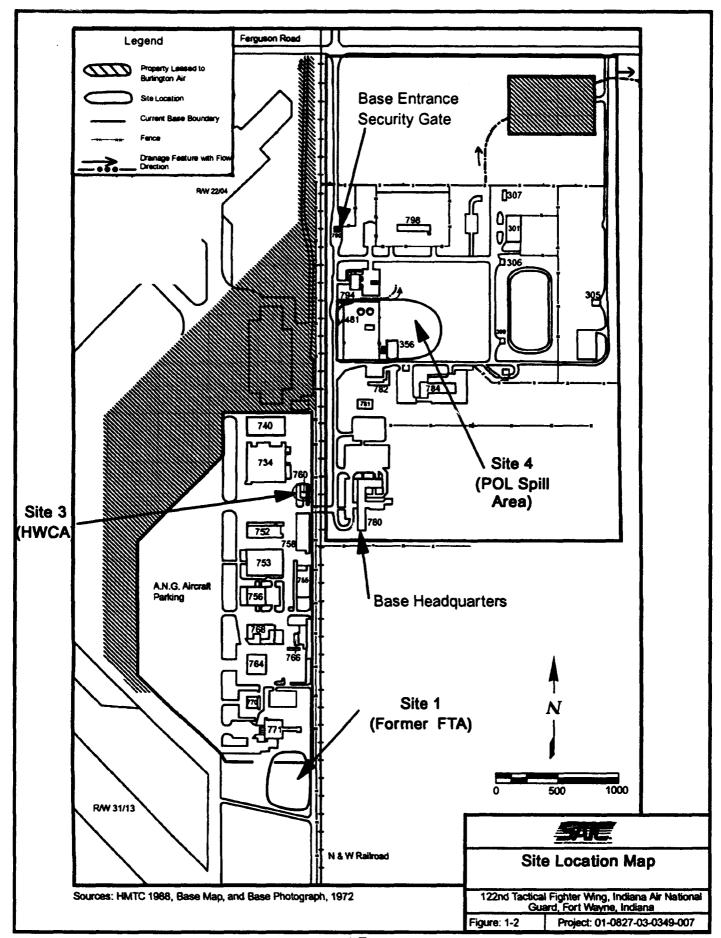
1.4.2 Site Descriptions

This section briefly describes the three sites under investigation (i.e., Site 1 -Former Fire Training Area, Site 3 - Hazardous Waste Collection Area, and Site 4 - POL Spill Area).

Site 1 - Former Fire Training Area — The Former Fire Training Area (FTA) is located in the extreme southern portion of the Base, south of Building 771 (the Hush House), as shown in Figure 1-2. The location of the former FTA was determined from field observations, interviews with Base personnel (including the former Base Fire Chief), and aerial photographs. The source of contamination at the former FTA is a burn area approximately 15 by 90 feet. The burn area was designed to contain fuel and waste oils used during fire fighting exercises with the construction of a berm on the western (downslope) side of the burn area. The berm was approximately 2 feet wide at its base, 1 foot high and rounded at the top, and extended the entire length of the burn area. The burn area was unlined. Prior to the commencement of each fire fighting exercise, the burn area was soaked with water. The water-soaked ground helped to reduce the extent of fuel migration into the ground.

The former FTA was used from 1963 to 1972 approximately 10 times a year. During each fire training exercise, approximately 50 to 60 gallons of fuel were used for a total of 500 to 600 gallons per year. Most of the fuel used was JP-4; a minimal amount of motor oil and aviation gasoline also was used.

After each fire training session, the burning fuel was extinguished by teams of personnel using a spray of water and foaming agent, which was directed to the northwest or southwest. Occasionally, this stream washed some of the fuel over the berm and downslope from the burn area.



After 1972, the ANGRC began dumping fill material (primarily native clay soils and some construction debris) over and around the former FTA. The area was continually filled and graded, eventually burying the former FTA under approximately 10 to 12 feet of fill.

Site 3 - Hazardous Waste Collection Area — The Hazardous Waste Collection Area (HWCA), located behind Building 760, is a 50-foot square gravel area enclosed by a wooden fence. The site location is provided in Figure 1-2. The HWCA currently is used as a temporary storage area. Since 1954, waste oils, solvents, paints, and thinners from various shops have been collected and stored in drums at this location. Initially, the area was grassy; it was later graveled and fenced. Drums of waste oil, hydraulic oil, PD-680 solvent, paints, and thinners are stored on pallets on the gravel. A site visit during the Phase I SI kick-off meeting revealed that funnels were in the top of each drum, the gravel was stained, and there was a noticeable odor of oils and solvents. Prior to the start of Phase II, Base personnel moved most of the drums from the area to a central staging area at the Base. The drums were removed from the staging area by the Defense Reclamation and Maintenance Organization for appropriate disposal at an off-Base location.

Site 4 - POL Spill Area - The POL Spill Area is located in the northern portion of the Base, east of Building 356 as shown in Figure 1-2. In 1968, a malfunction in the POL system at Building 352 and the nearby pump house resulted in a spill of 5,000 to 5,300 gallons of JP-4 fuel. The spill flowed from the POL facility and ran eastward into the woods and into an open storm drainage ditch. Approximately 200,000 gallons of water were used to flush the JP-4 from the immediate POL area. According to the Preliminary Assessment Report (HMTC 1988), the water and fuel washed eastward into the surface drainage system and eventually into Harber Ditch, which is approximately 3,000 feet east of the Base. Although surface drainage at Site 4 is generally toward Harber Ditch, it is unknown what quantity of the spill actually migrated to any one drainage feature. ANGB personnel noted no vegetative damage in the woods after the spill (HMTC 1988).

1.5 REGIONAL SETTING

The following sections describe the regional environmental setting of the Indiana ANGB, including regional land use, geology, hydrogeology, climate, and surface drainage.

1.5.1 Regional Land Use

Regional land use, prior to the construction of the Base, was primarily agricultural. Residue from agricultural use of fertilizers and pesticides may persist in the form of elevated levels of certain contaminants. These contaminants may include arsenic (from arsenic-based pesticides).

Land is used for a municipal airport adjacent to the Base to the west. This includes the airport terminal, aircraft maintenance warehouses, and light industrial land uses. Other land use adjacent to the Base is primarily agricultural.

1.5.2 Geology

Fort Wayne, Indiana is located within the Central Lowland physiographic province of the Great Plains. The Central Lowlands are characterized by level to gently undulating uplands that are dissected by steep drainageways. The topography of the Base is nearly level, at elevations ranging from 785 feet above mean sea level (MSL) in the eastern portion of the Base to approximately 700 feet above MSL in the southern portion (HMTC 1988).

The uplands in the vicinity of the Base are part of the Tipton Till Plain, formed of unconsolidated glacial till that was deposited during the Pleistocene epoch. From the surface to approximately 20 feet below ground surface (BGS), the New Holland Till Member of the Lagro Formation is present, which is composed predominantly of silt and clay. Underlying the Lagro Formation from approximately 20 to 70 feet BGS is older Pleistocene till known as the Trafalgar Formation. The Trafalgar Formation is an unconsolidated clay-rich till containing scattered thin beds of sand, silt, and gravel (Bleuer and Moore 1978). Immediately underlying the Trafalgar Formation are the Traverse and Detroit River Formations, which are Devonian in age and consist of up to 145 feet of limestones and dolomites. The top of the bedrock below

the Base is reported to be at 720 feet above MSL, or approximately 70 feet BGS (Bleuer and Moore 1978).

Soil borings drilled at the Base show that soil in the upper 60 feet consists primarily of stiff clay, with occasional thin lenses of silt, sand, and gravel. A brown clay typically was encountered lying stratigraphically over a thicker gray clay.

1.5.3 Regional and Local Hydrogeology

Groundwater in Allen County is derived from two aquifer types: glacial drift and carbonate bedrock. The glacial aquifers consist of silt, sand, and gravel lenses within unconsolidated clay. The carbonate bedrock aquifers occur where sufficient cracks and voids are present in the bedrock to hold and conduct water (Bleuer and Moore 1978). The glacial aquifers are unconfined water-table aquifers. The majority of the bedrock aquifer is interconnected by overlying sand and gravel units; however, it may be locally confined in some areas (Bleuer and Moore 1978).

Groundwater production wells tap both aquifer types within the county. Because the bedrock surface is shallower and the thin cover of the overlying glacial deposits generally contain a very small percentage of sand and gravel in the vicinity of the Base, nearly all of the production wells are completed in the carbonate bedrock aquifer (Bleuer and Moore, 1978). In a 1-mile radius of the Base, there are a few private production wells that tap into the bedrock and glacial aquifers. The nearest well is located 1,300 feet south of the Base (HTMC April 1988).

The general groundwater flow within the aquifers of Allen County converges on the valleys of the Little River, St. Marys River, St. Joseph River, and Maumee River. This regional flow pattern indicates that groundwater flow beneath the Base moves in an east to northeast direction toward the St. Marys River (HMTC 1988).

1.5.4 Climate and Surface Drainage

The climate of Allen County is mid-continental, characterized by wide variations in temperature from winter to summer and a fairly uniform distribution of precipitation throughout the year. Mean yearly temperature is approximately 50°F; average minimum temperature in the winter is 22°F and average maximum temperature in the summer is 81°F. Precipitation averages 35.3 inches per year (NOAA 1986) and the net precipitation is +3.3 inches per year (HMTC 1988).

According to the Federal Emergency Management Agency (FEMA), the Base is not within a 100-year floodplain. The surface water divide between the Lake Erie watershed and the Mississippi River watershed passes through Allen County just west of the Base (approximate location shown in Figure 1-1). Water from most of Allen County drains into the Maumee River, which is part of the Lake Erie watershed. The far western one-fourth of the county is drained by the Little River and the Eel River, both of which are part of the Mississippi River watershed. Water to supply the city of Fort Wayne is obtained from the St. Joseph River.

The Base is located within the Lake Erie watershed. Surface runoff from the Base flows through a drainageway (shown in Figure 1-2 originating at the northeast portion of the Base) into Harber Ditch, which is approximately 2,000 to 5,000 feet east of the Base. From Harber Ditch, surface water flows north through the city of Fort Wayne and into the St. Marys River. Other surface features include a swampy area located approximately 1,500 feet east of the Base, and a public golf course located adjacent to the northern boundary of the Base. A 1986 aerial photograph shows that the closest residences to the Base are located approximately 1,400 feet south of the Base's southern boundary. Discussions with Base personnel and Allen County officials have established that the closest residence is still located 1,400 feet from the Base boundary.

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2. FIELD PROGRAM

The field activities conducted during the Site Inspection (SI) at the Indiana Air National Guard Base (ANGB) are described in this section. These activities were conducted in accordance with the project work plans (SAIC 1990a, 1991). The procedures used in the field are described in detail in the Field Sampling Plan (SAIC 1990b) and are summarized below.

2.1 FIELD PROGRAM SUMMARY AND RATIONALE

The SI field activities were conducted in two phases: Phase I in August and September 1990 and Phase II in October and November 1991. The Phase II field investigation was a continuation of the Phase I study and was conducted to fill the data gaps discovered during the initial study. Data collected during Phase I were used to plan and develop the technical approach for Phase II activities.

Nine piezometers were installed throughout the Base. The piezometers were positioned on Base property at locations best suited for determining the groundwater elevations and flow direction, but were not placed in areas suspected of being contaminated. Water level elevation data measured from the piezometers were plotted as groundwater contours and provided an initial evaluation of the gradient and flow direction for subsequent placement of monitoring wells. All soil borings, monitoring wells, and piezometers were surveyed using the Indiana State Plane Coordinate system. Table 2-1 summarizes the Phase I and Phase II field activities. The specific field activities conducted at each site are summarized in Sections 2.1.1 through 2.1.4.

2.1.1 Site 1 - Former Fire Training Area (FTA)

The site history and the present topography and subsurface conditions at Site 1 - Former FTA indicate that the former FTA surface is located approximately 10 to 12 feet below current ground surface, and any contamination related to fire training activities conducted at this site would be expected to be found at the former surface or below the former surface. However, the focus of the SI was not only to determine the presence of site-related contamination at the former FTA surface and below, but also at the current ground surface. This was because the

122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana Table 2-1. Summary of Site Inspection Program Activities

| | Site 1 Former 1 Training | Site 1 Former Fire raining Area | Site Hazardor Collecti | Site 3 Hazardous Waste Collection Area | Site 4 POL Spill | Site 4 POL Spill Area | Background | round | Total |
|--------------------------------------------------------------|--------------------------------|---------------------------------------|------------------------------|----------------------------------------------|---------------------|--------------------------|------------|----------|-------|
| | Phase I | Phase II | Phase I | Phase II | Phase I | Phase II | Phase I | Phase II | |
| Soil and Water Organic Vapor Sample Points | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 30 |
| Soil Borings | 4 | 9 | 4 | 2 | 5 | 3 | 1 | 2 | 27 |
| Total Soil Samples per Site* | 12 | 28 | 9 | 5 | 10 | 8 | 0 | 9 | 75 |
| Monitoring Wells | 2 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 8 |
| Piezometers | 5 | 0 | 7 | 0 | 2 | 0 | 0 | 0 | 6 |
| Groundwater Samples from Monitoring Wells and Piezometers | 3 | ε | 1 | 1 | 2 | 3 | 0 | 0 | 13 |
| Sediment Samples | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 4 |
| Aquifer Tests | 1 | 0 | 1 | 0 | 1 | 0 | | 0 | ю |
| Water Level Measurements (Monitoring Wells and Piezometers) | 7 | 7 | 3 | 3 | 4 | 4 | 0 | 0 | 28 |
| | | | | | | | | | |

* Includes Field Duplicates.

significance of any contamination detected above the former FTA surface, although not related to fire training activities, would still need to be evaluated. Specific field activities conducted at Site 1 during Phases I and II are summarized below. The locations of soil borings, piezometers, and monitoring wells installed during activities conducted during Phases I and II are shown in Figure 2-1.

Phase I Field Activities

- The former FTA location was estimated from aerial photographs and interviews with Base personnel. This was necessary because the former FTA was covered with several feet of fill material after being closed and field inspection of the area was difficult.
- Three soil borings were drilled to the water table in the area thought to be the former FTA. Soil samples were collected from the borings at 5-foot intervals and one sample at each boring was collected at the groundwater interface. Two soil samples from each boring were selected and submitted for laboratory analyses based on field screening results for volatile organics.
- Five piezometers were originally drilled and installed in the vicinity of Site 1 to determine groundwater flow direction and help locate the placement of monitoring wells at Site 1. Piezometer 7 was abandoned at a later date.
- Two monitoring wells were installed at Site 1 and groundwater samples were collected from these wells to determine if contaminants were present in the groundwater. The wells were installed at presumed upgradient and downgradient locations.
- Because subsurface soil contamination was detected during the installation of the presumed upgradient well, an additional soil boring was drilled and sampled near this planned well location to a depth of approximately 15 feet below ground surface (BGS).
- Because contaminants were detected at the original location of the upgradient well, piezometer P-8 was sampled to determine upgradient water quality. The piezometers were constructed similar to the monitoring wells, and therefore, a representative groundwater sample could be collected. The principal objective of the piezometer, however, was to determine groundwater elevations and help locate monitoring wells.

Phase II Field Activities

Licensed surveyors delineated the location of the former FTA from aerial
photographs using control points and benchmarks that have not changed since the
FTA was active. This activity was conducted because uncertainty existed during
Phase I investigations as to whether the former FTA had been encountered. The
delineation of the former FTA boundary has been certified by the surveyor to be

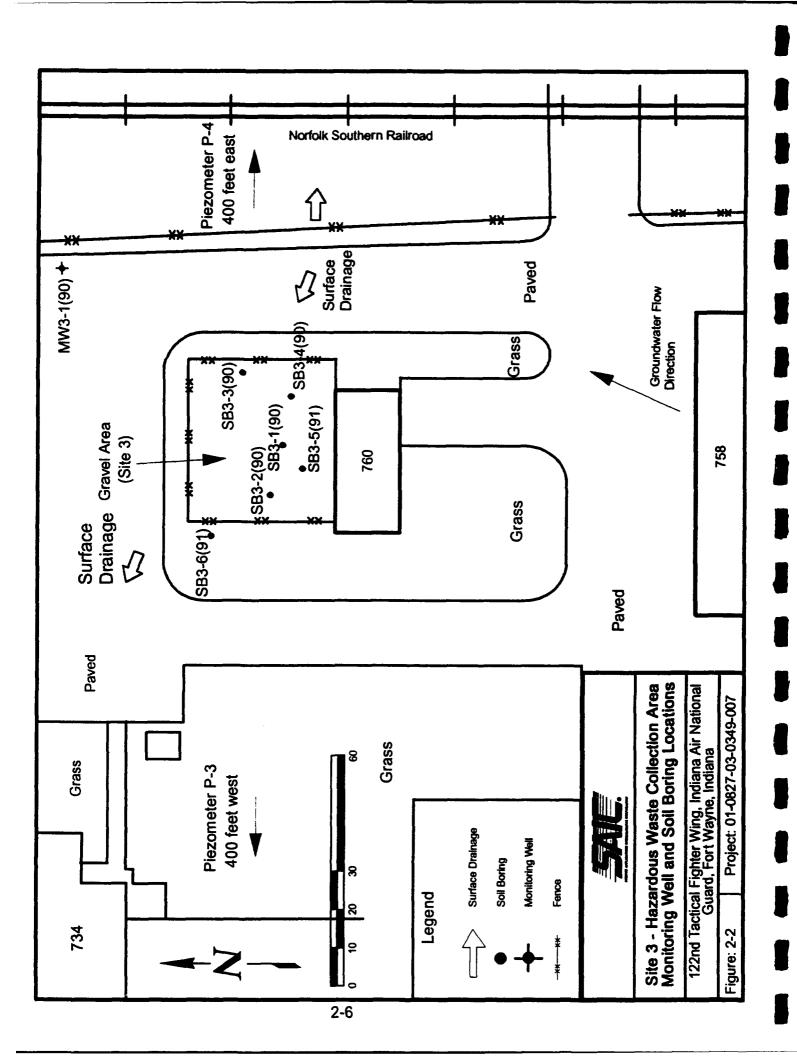
- within 6 feet. In addition, the delineated former FTA boundary was confirmed by the former Base Fire Chief.
- Six soil borings were drilled and sampled. Soil samples collected from the current land surface and from just below the fill layer were submitted for laboratory analysis. Additional samples from each borehole were selected for laboratory analysis based on field screening results.
- A second round of groundwater samples was collected from the same two monitoring
 wells and piezometer that were sampled during Phase I. This sampling was
 conducted to confirm initial results and to provide a comparison of the Phase I
 groundwater monitoring results.
- Groundwater was collected from an open soil boring that was drilled to the water table in the center of the former FTA. The groundwater was analyzed to determine if contaminants had migrated to the water table at the site. A monitoring well was not installed at this location because of an ANGRC policy concerning areas of known contamination. According to ANGRC policy, monitoring well installation is restricted where it is possible for the well structure or installation procedure to provide a contaminant migration pathway.

2.1.2 Site 3 - Hazardous Waste Collection Area (HWCA)

The specific field activities conducted at Site 3 - HWCA during Phases I and II of the SI are summarized below. The locations of soil borings and monitoring wells installed at this site are shown in Figure 2-2.

Phase I Field Activities

- Four soil borings were drilled within the fenced area at Site 3. One boring was completed at the water table (approximately 40 feet BGS). Soil samples collected from this boring at the surface (0 to 2 feet BGS), 2 to 4 feet BGS, and the groundwater interface were selected for laboratory analysis. Three borings were drilled to 2 feet BGS and one sample from each boring was collected and sent for laboratory analyses. The deep boring was drilled to provide information on the vertical extent of contamination and the shallow borings (0 to 2 feet BGS) were drilled to provide information on the presence of contamination in the surface soils.
- Two piezometers (P-3 and P-4, 400 feet west and 400 feet east of the site, respectively) were installed in the vicinity of Site 3 to assist in determining groundwater flow direction and help place the monitoring wells at the site.
- One monitoring well was installed downgradient from the site and sampled to determine if contaminants were present in the groundwater.



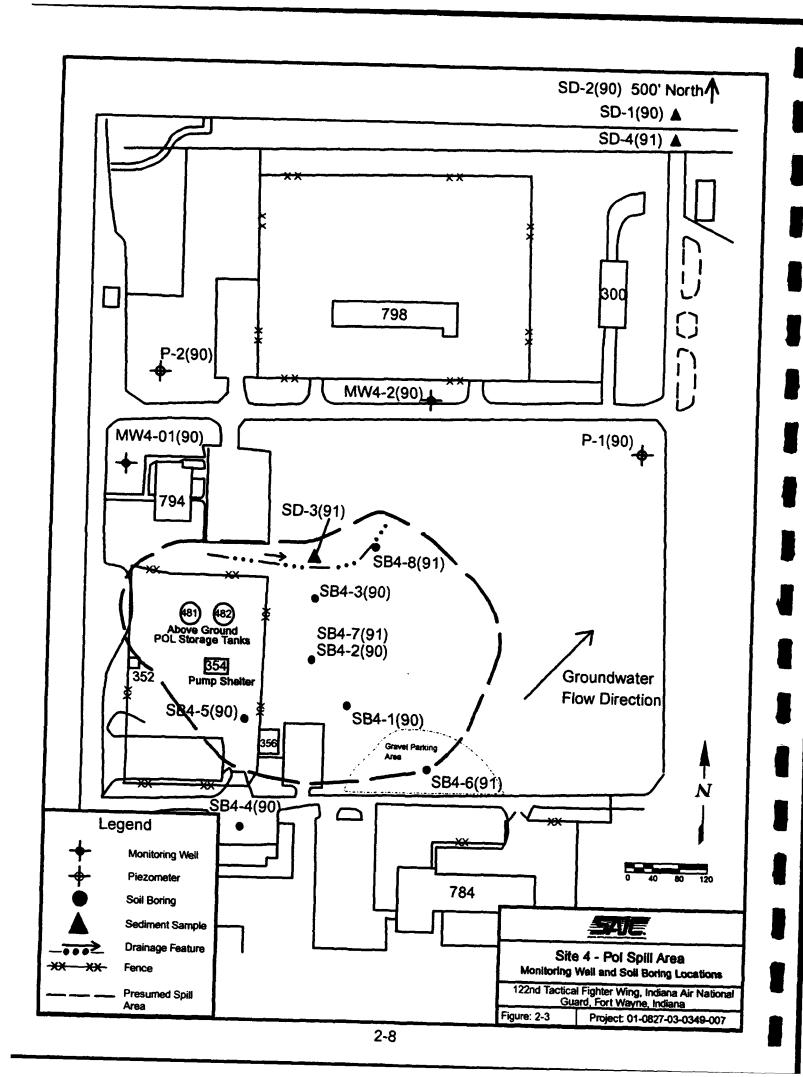
Phase II Field Activities

- One soil boring was drilled within the fenced area and sampled at 5-foot intervals to the groundwater interface. The sample collected at the surface (0 to 2 feet BGS) was forwarded to the laboratory for analyses. Two other samples collected at different depths were submitted for laboratory analyses based on field screening results. The deep boring was drilled to confirm the vertical extent of contamination that had been observed during Phase I activities. In addition, a second boring was drilled approximately 5 feet outside the fenced area to determine if the contaminants had migrated offsite. Two samples, one from the surface (0 to 2 feet BGS) and one at 4 to 5.5 feet BGS, were sent for laboratory analyses.
- The downgradient monitoring well installed and sampled in 1990 was resampled in 1991 to provide comparative data.

2.1.3 Site 4 - POL Spill Area

The focus of investigations at Site 4 was principally to determine the presence of any residual contamination remaining from the 1968 spill. Because any contamination at the site resulted from a spill of an UST system, the response to the release follows the guidelines established under 40 CFR 280.63; accordingly, information on the size and nature of the release must be assembled. To determine the nature of contamination at the site, laboratory analyses were aimed at detecting the presence of any TPH, or benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds. Other investigations were aimed at assembling information pertaining to the land use and environmental receptors in the vicinity of the site. Evaluation of data focused on presenting details of the site investigation work, sampling and analytical methods, and laboratory analytical results, to comply with the requirements of the Indiana Department of Environmental Management (IDEM), Office of Emergency Response (OER).

Specific field activities conducted at Site 4 - POL Spill Area during Phases I and II of the SI are summarized below. The locations of soil borings, monitoring wells, and sediment sampling points are shown in Figure 2-3.

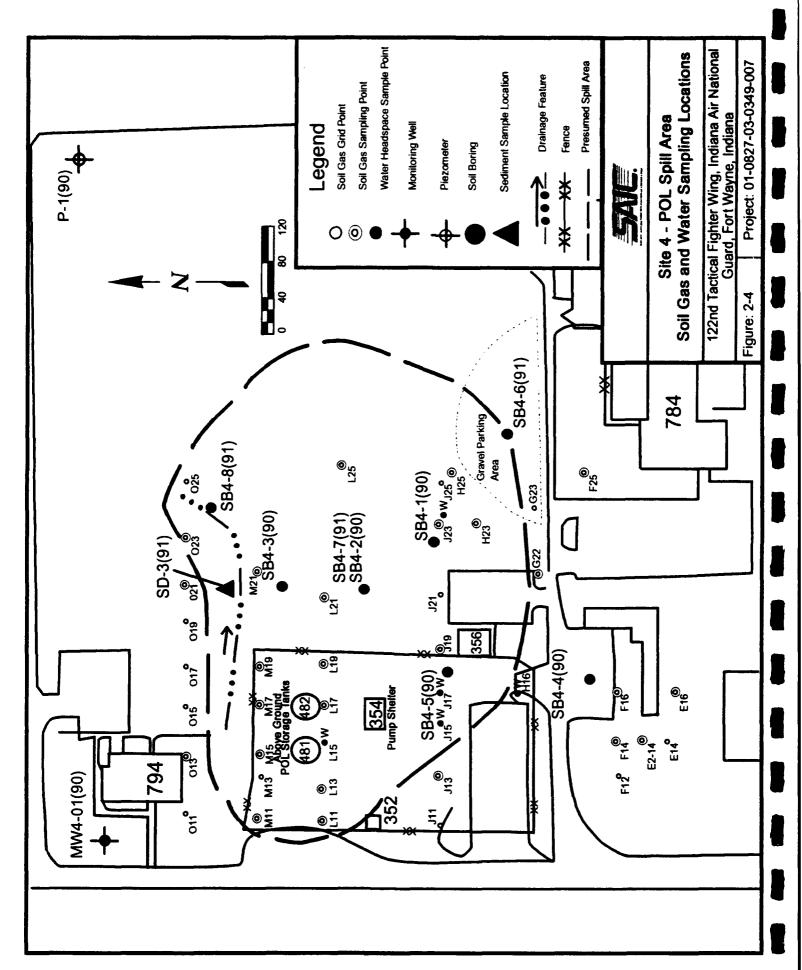


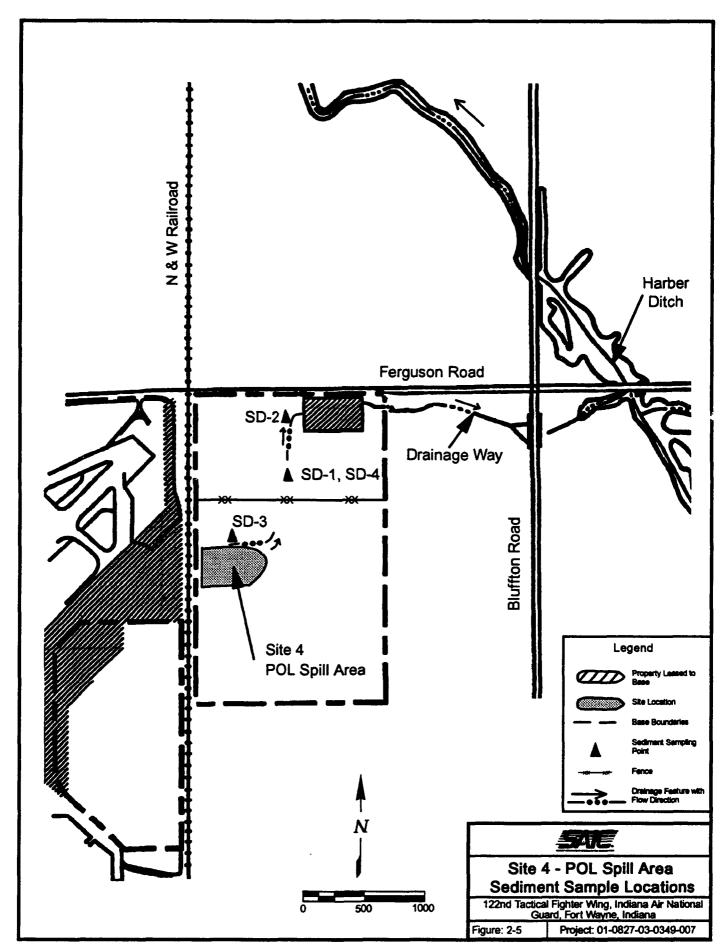
Phase I Field Activities

- A soil gas survey was first conducted at this site as a screening tool to determine soil sampling locations. Soil vapor and water samples were collected at strategic locations to provide initial information on the area of potential contamination. Figure 2-4 shows the location of the soil gas and water sampling points.
- Five shallow soil borings were drilled to 5 feet BGS to determine the presence of residual contamination from the spill that occurred in 1968. The location of these borings were based on a combination of the soil gas survey results and a knowledge of the presumed extent of the spill. Two samples were collected from each boring, one at 0 to 2 feet BGS and the other at 3 to 5 feet BGS, and forwarded to the laboratory for analyses.
- Two piezometers were drilled and installed in the vicinity of the spill area to assist in determining groundwater flow direction and help place the monitoring wells at this site.
- Two monitoring wells were installed at this site. A groundwater sample was collected from the well located immediately downgradient from the site. However, despite several attempts to collect a sample from the other well at Site 4, it was impossible because of the slow recovery of water in the well. Therefore, piezometer P-2 was sampled instead. The piezometers were constructed similar to the monitoring wells, and therefore, a representative groundwater sample could be collected. The principal objective of the piezometer, however, was to assist in the determination of groundwater elevations and help locate monitoring wells.
- Two sediment samples were collected from the drainage ditch located east and downslope from the site, where runoff from the spill might have accumulated. The sediment sampling locations are shown in Figure 2-5.

Phase II Field Activities

- Three soil borings were drilled and sampled: one at the point of highest contamination detected during Phase I to determine the vertical extent of contamination, and two near the presumed extent of the spill to delineate the spill boundaries. Samples were selected for analysis based on the field screening results.
- The two monitoring wells installed during Phase I were resampled to confirm the initial results and provide comparative data. A piezometer located downgradient from the site also was sampled to provide additional information on the contamination in groundwater.
- Two sediment samples were collected downslope from the spill. One sample was collected from the storm drainage ditch where samples were collected during Phase I. The other sediment sample was collected in a drainage pathway immediately downslope from the spill area.





2.1.4 Background Sampling

Three background borings were drilled during Phase I and Phase II activities, as explained below. These background borings were drilled to determine ambient conditions outside areas of suspected site influence. The locations of the background borings are shown in Figure 2-6.

Phase I Field Activities

• One background soil boring was drilled just east of the Base entrance Guard House, at a location considered to be isolated and not impacted by site activities. The boring was drilled to a depth of 10 feet BGS and two samples were collected, one at 0 to 2 feet BGS and the other at 3 to 5 feet BGS.

Phase II Field Activities

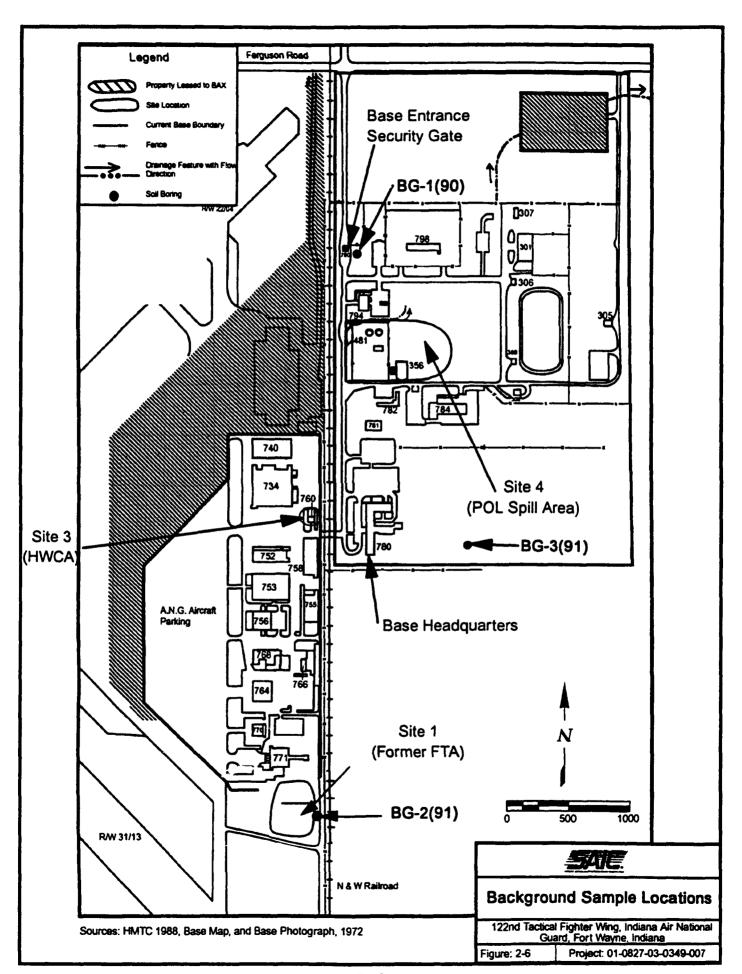
• Two background soil borings were drilled at locations considered to be representative of background conditions. One boring was located upslope from the former FTA specifically for comparison to Site 1 because of the potential for Site 1 to be impacted by airport activities. The second background boring drilled during Phase II was drilled east of the Base Headquarters (Building 780) in a field recently acquired by the Base. Samples were analyzed from the surface, at the water table, and at a depth half the distance to the water table.

2.2 GEOLOGIC AND HYDROGEOLOGIC INVESTIGATION

Geologic and hydrogeologic data for the sites at Indiana ANGB were obtained from lithology encountered during drilling of soil borings and monitoring wells, measurement of groundwater elevations, and rising head permeability tests. These activities are described below.

2.2.1 Static Groundwater Measurements

Monitoring well and piezometer water levels at the Base were measured during each phase of the SI. The water level measurements were used to determine groundwater flow direction and to help calculate groundwater flow rate. Water levels were measured with an electric water level indicator, which emits an audible tone when the water surface is contacted. The level indicator, which was decontaminated after each use following the procedures described in Section 2.8, was lowered into the well until the audible tone was heard. The measurement



was made at a surveyed notch on the top of the monitoring well or piezometer casing, and was recorded to the nearest 0.01 foot. Water levels were referenced to the U.S. Geodetic Survey (USGS) datum (mean sea level).

2.2.2 Aquifer Testing

Rising head permeability aquifer tests were performed in three monitoring wells during Phase I to determine the hydraulic conductivity of formations surrounding the well. These single-well tests were conducted by removing a volume of water from a well using a bailer, then recording the water level in the well at timed intervals as it recovered to static conditions.

Water level measurements recorded during well recovery were made automatically by a Hermit Environmental Data Logger Model SE1000B manufactured by In-Situ, Incorporated. Parameters, including the timed interval for water level measurements, internal clock, test number, and initial static recorder reading, were set at the site by the field scientist. The test was stopped after the water level had recovered to at least 95 percent of the initial drawdown. The test data were downloaded directly to a field computer for review and analysis.

The data collected during the aquifer tests were analyzed using the computer program AQTESOLVTM, developed by Geraghty & Miller, Inc. (1989). AQTESOLVTM used analytical solutions developed by Bouwer and Rice (1976) for unconfined, partially penetrating wells to provide values for hydraulic conductivity and best-fit, time-drawdown curves. Darcy flow velocities were calculated using the calculated hydraulic conductivity and hydraulic gradient.

2.3 SOIL GAS SURVEY

A soil gas survey was performed at Site 4 - POL Spill Area during Phase I of the SI. The survey, conducted by Tracer Research Corporation (TRC), was designed to determine the presence of volatile organic contaminants in the soils or groundwater at the site. A grid was established over the site and steel probes were inserted into the soil at specific grid locations to extract a sample for analysis with an onsite gas chromatograph (GC). This process was repeated at various nodes of the grid to determine the potential areal extent of volatile organic contamination. Procedures used to perform the soil gas survey are described in Appendix A.

2.4 DRILLING SUMMARY AND PROCEDURES

Soil borings were drilled at the Base during both phases of the SI to collect soil samples for laboratory analysis primarily to confirm the presence or absence of soil contamination. These data also were used to identify the chemical nature, and to define the magnitude and extent of both vertical and horizontal contamination. In addition, soil borings were used to provide descriptions of the soil column at each boring location. Twenty-seven soil borings were drilled at Indiana ANGB during the SI (14 borings drilled during Phase I and 13 drilled in Phase II). Three of the borings were located in areas considered to represent background conditions. The procedures for installing the soil borings are described below.

All boreholes were drilled using 6 ¼-inch outside diameter (O.D.) hollow-stem augers. The stem opening was 4.5 inches, which allowed soil sampling using a 3-inch inside diameter (I.D.) stainless steel split spoon sampler. All soil samples forwarded to the laboratory for analyses were collected using brass (for organic, petroleum hydrocarbons, and oil and grease analyses), and stainless steel (for priority pollutant metals analyses) liners. After the split spoon was retrieved from the borehole, these liners were capped and labeled. The augers were advanced to the sampling depth with the auger plugged. When the desired depth was reached, the plug was removed and the soil sample was collected by driving the split spoon sampler with a 140-pound drive hammer into the undisturbed material below the lead auger. Blows of the hammer for each 6 inches of sampler advancement were recorded. Once the sampler was driven to the desired depth, it was removed from the hole and the material in the sampler was transferred to the appropriate sampling containers following the procedures detailed in Section 6 of the Field Sampling Plan (SAIC 1990b). Abandonment of each soil boring was completed following the procedures detailed in Appendix A of the Field Sampling Plan. Borehole logs are provided in Appendix B of this report.

2.5 MONITORING WELL AND PIEZOMETER INSTALLATION

Five monitoring wells and nine piezometers were installed during Phase I of the SI to determine if contaminants were present in the groundwater and to determine aquifer characteristics. Monitoring wells and piezometers were installed by drilling a borehole as described above and then installing a monitoring well or piezometer following the procedures

described in Appendix A of the Field Sampling Plan (SAIC 1990b). Monitoring well boreholes were drilled to a depth approximately 15 feet below the water table to allow for proper screen placement in accordance with the procedures detailed in the Field Sampling Plan (SAIC 1990b). The water table was located by measuring the water level inside the hollow-stem auger following the first sign of wet drill cuttings or soil samples. A typical well construction diagram for wells installed at the Base is presented in Figure 2-7. At the Indiana ANGB, the monitoring wells and piezometers were constructed in a similar manner. However, piezometers were installed first to estimate the groundwater flow direction and determine the appropriate location of the monitoring wells. Well construction diagrams providing details on each well and piezometer are presented in Appendix B. Monitoring well and piezometer locations at Sites 1, 3, and 4 are presented in Figures 2-1, 2-2, 2-3, and 2-4, respectively.

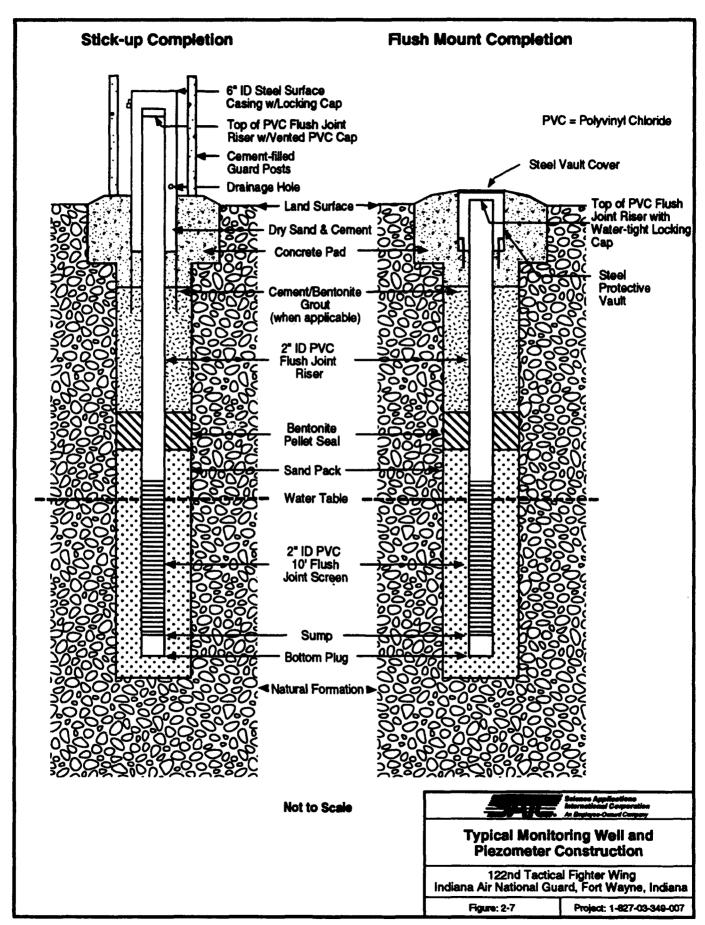
2.6 SURVEYING

Sampling locations, including boreholes, wells, piezometers, and sediment sample areas, were surveyed during each phase of the SI. Surveys were subcontracted to local surveyors licensed in the State of Indiana. After the wells, piezometers, and soil borings were completed at each site, they were surveyed for horizontal location and elevation. The surveys were completed to a vertical accuracy of 0.01 feet and a horizontal accuracy of 1 foot. All surveys were referenced to USGS elevation datum and the Indiana State Coordinate System. The horizontal coordinates and elevation data of the soil borings and monitoring wells installed at Indiana ANGB are summarized in Appendix C.

During Phase II, surveyors also determined the location of the former FTA from aerial photographs taken in 1963 and 1972. Using control points (such as buildings and railroad tracks) that have been undisturbed and unchanged throughout the period from 1963 to the present, surveyors were able to locate the former FTA within 6 feet.

2.7 FID SCREENING

During Phase I drilling of the soil borings, samples were collected at 5-foot intervals and screened with a portable flame ionization detector (FID). The screening was conducted to provide field data on the levels of volatile organic compound (VOC) contamination and select



soil samples for laboratory analysis. During Phase II, samples were collected using the following field screening strategy: Samples were collected from each borehole from the surface (0 to 2 feet BGS) and to total depth at 5-foot intervals. All surface samples were submitted for laboratory analysis. All samples were screened using the FID, including the surface sample. The boring was considered complete when two consecutive samples (including the surface sample) contained no volatile organic vapors according to the FID. If no two consecutive samples were free of organic vapors, the borehole was completed when groundwater was encountered during drilling. In addition to the surface soil sample, the second consecutive clean sample and the sample with the highest FID reading were submitted for laboratory analysis. Where two consecutive clean samples were not encountered, the sample with the highest FID reading and the sample closest to the water table were submitted for laboratory analysis. In addition, during Phase II, the decontaminated soil sampling equipment was screened with the FID to establish an equipment and ambient air background FID reading. The results of field screening for VOCs are presented in Table 2-2.

2.8 DECONTAMINATION PROCEDURES

Before sampling activities began, between sampling intervals, and after sampling activities at a location were completed, all sampling equipment (e.g., split spoon samplers, bailers, and sediment sampling equipment) was decontaminated. During the first part of the soil boring and sampling activities, the sampling equipment was decontaminated as specified in the Field Sampling Plan (SAIC 1990b). This procedure included an initial scrubbing with Alconox[®] detergent, rinsing with potable water, rinsing with American Society for Testing and Materials (ASTM) Type II water, rinsing with pesticide-grade methanol, and finally rinsing with pesticide-grade hexane and allowing the equipment to completely air dry before use. The cold weather prevented the equipment from drying quickly and the hexane from volatilizing easily, which caused interference with the field screening for volatile organic vapors.

During the field visit by HAZWRAP representatives on October 30, 1991, the decontamination procedure was modified slightly to eliminate the hexane rinse and add two final ASTM water rinses. The equipment was then allowed to air dry before use. This procedure removed the remaining residual organic solvent vapors. Lines used to lower bailers into the

Table 2-2. Summary of Field Screening Results
During Site Inspection Activities, 122nd Tactical Fighter Wing
Indiana Air National Guard, Fort Wayne, Indiana

| <u> </u> | | | | T | |
|---------------|----------|--------------------|--------------------------------|---------------------------------------------|-------------------------------|
| Sample No. | Date | Interval (feet) | Sample Screening Results | Background Results (ppm) ¹ | Rationale for Lab Analysis |
| SB1-5-1 | 11/1/91 | 0 - 1.5 | BG | 1 - 2 | Current SFC |
| SB1-5-2 | 11/1/91 | 10 - 11.5 | 100 - 200 ppm | 1 - 2 | Former SFC |
| SB1-5-3 | 11/1/91 | 13.5 - 15 | 150 - 250 ppm | 1 | Highest |
| SB1-5-7 | 11/2/91 | 35 - 36.5 | 2 ppm | 1 | WT |
| SB1-6-1 | 11/2/91 | 0 - 1.5 | 30 ppm | 0 | Current SFC |
| SB1-6-2 | 11/2/91 | 10 - 11.5 | 50 - 70 ppm | 0 | Former SFC |
| SB1-6-3 | 11/2/91 | 13.5 - 15 | 50 - 80 ppm | 0 | Highest |
| SB1-6-5 | 11/2/91 | 25 - 26.5 | 10 ppm | 2 - 3 | Apparent WT |
| SB1-6-5R | 11/2/91 | 25 - 26.5 | 10 ppm | 2 - 3 | Duplicate |
| SB1-6-7 | 11/2/91 | 35 - 36.5 | BG | 0 | 2nd Clean (WT) |
| SB1-7-1 | 11/5/91 | 0 - 1.5 | BG | 0 | Current SFC |
| SB1-7-2 | 11/5/91 | 8.5 - 10 | BG | 0 | BG Former SFC |
| SB1-7-3 | 11/5/91 | 15 - 16.5 | BG | 0 | 2nd Clean |
| SB1-8-1 | 11/4/91 | 0 - 1.5 | BG | 1 | Current SFC |
| SB1-8-2 | 11/4/91 | 6.4 - 8.5 | BG | 1 | Former SFC |
| SB1-8-3 | 11/4/91 | 11.5 - 13 | 1 - 2 ppm | 1 | Highest |
| SB1-8-5 | 11/4/91 | 20 - 21.5 | 0 | 0 - 10 ² | 2nd Clean |
| SB1-9-1 | 11/4/91 | 0 - 1.5 | BG | 0 | Current SFC |
| SB1-9-2 | 11/4/91 | 5 - 6.5 | BG | 0 | Former SFC |
| SB1-9-3 | 11/4/91 | 10 - 11.5 | BG | 1 | 2nd Clean |
| SB1-10-1 | 11/4/91 | 0 - 1.5 | BG | 0 | Current SFC |
| SB1-10-2 | 11/4/91 | 5 - 6.5 | 5 - 7 ppm | 0 | Former SFC |
| SB1-10-3 | 11/4/91 | 10 - 11.5 | 10 - 20 ppm | 0 | Highest |
| SB1-10-4 | 11/5/91 | 15 - 16.5 | BG | 0 | 1st Clean |
| SB1-10-4R | 11/5/91 | 15 - 16.5 | BG | 0 | Duplicate |
| SB1-10-5 | 11/5/91 | 20 - 21.5 | BG | 0 | 2nd Clean |
| SB3-5-1 | 10/30/91 | 0 - 1.5 | 20 ppm | 0 | SFC |

Table 2-2. Summary of Field Screening Results
During Site Inspection Activities, 122nd Tactical Fighter Wing
Indiana Air National Guard, Fort Wayne, Indiana (Continued)

| Sample No. | Date | Interval (feet) | Sample Screening Results | Background Results (ppm) ⁱ | Rationale for Lab Analysis |
|---------------|----------|--------------------|--------------------------------|---------------------------------------------|----------------------------|
| SB3-5-6 | 10/31/91 | 24.5 - 26 | 500 - 700 ppm | 3 | Highest |
| SB3-5-9 | 10/31/91 | 39.5 - 40 | 25 ppm | 0 | Water Table |
| SB3-6-1 | 10/31/91 | 0 - 1.5 | BG | 0 | SFC |
| SB3-6-2 | 10/31/91 | 4 - 5.5 | BG | 0 | 2nd Clean |
| SB4-6-1 | 10/30/91 | 0 - 2 | BG | 1 | SFC |
| SB4-6-2 | 10/30/91 | 4.5 - 6.5 | 8 ppm | 1 | Highest |
| SB4-6-6 | 10/30/91 | 24 - 25.5 | BG | 2 | 2nd Clean |
| SB4-7-1 | 10/31/91 | 0 - 2 | BG | 0 | SFC |
| SB4-7-2 | 10/31/91 | 4 - 5 | BG | 0 | 2nd Clean |
| SB4-8-1 | 11/1/91 | 0 - 1.5 | BG | 3 - 5 | SFC |
| SB4-8-2 | 11/1/91 | 4.5 - 6 | 10 - 20 ppm | 3 - 5 | Highest |
| SB4-8-4 | 11/1/91 | 14.5 - 16 | BG | 3 - 5 | 2nd Clean |
| BG2-1 | 11/3/91 | 0 - 1.5 | BG | 0.5 - 1 | Current SFC |
| BG2-2 | 11/3/91 | 3 - 4.5 | BG | 0.5 - 1 | Former SFC |
| BG2-3 | 11/3/91 | 20 - 21.5 | BG | 0.3 | Midway to WT |
| BG2-4 | 11/3/91 | 37 - 39 | BG | 0 | WT |
| BG3-1 | 11/3/91 | 0 - 1.5 | BG | 0.2 | SFC |
| BG3-2 | 11/3/91 | 15 - 16.5 | BG | 0.2 | Midway to WT |
| BG3-3 | 11/3/91 | 29 - 30.5 | BG | 0 | wt |

WT - Water table SFC - Surface

Clean - No organic vapors indicated with FID

BG - FID reading on sample was equal to background FID reading

NR - Not Recorded

¹FID screening results of ambient air plus decontaminated equipment.

²Jets operating upwind, sample checked in closed space to avoid interference.

wells were replaced between wells. Water level monitoring devices and measuring tapes were scrubbed with laboratory-grade Alconox[®] detergent and rinsed with distilled water between uses. Drilling equipment (including rods, bits, and tools) were cleaned at the decontamination area with a steam cleaner, laboratory-grade Alconox[®] detergent, and a potable water rinse before, between, and after each drilling location. The decontamination area was cleaned after each use.

2.9 SAMPLING PROGRAM AND PROCEDURES

Soil, sediment, and groundwater samples were collected during the SI at Indiana ANGB. The following sections summarize the sampling program and procedures. Table 2-3 shows the site-specific analyses conducted by the laboratory. The laboratory methods used for samples from each site are presented in Table 2-4.

2.9.1 Soil Sampling

Twenty-eight soil samples collected during Phase I and 47 soil samples collected during Phase II were selected for laboratory analysis during the SI. The soil samples sent to the laboratory were analyzed for the parameters identified during the planning phase of the SI. These parameters were selected based on site history and use, previously detected contaminants, and discussions with ANGRC and Hazardous Waste Remedial Actions Program (HAZWRAP) personnel.

2.9.2 Geotechnical Sampling and Analysis

During Phase II activities, soil samples were collected and sent to a geotechnical testing laboratory to obtain analytical data on the physical characteristics of the soil above the aquifer and to confirm the field geologic descriptions. Geotechnical samples were collected from each of the three sites and one background location using split spoons and the procedures described in Section 2.4. Soil was collected close to the water table but above the aquifer material to estimate permeability and the rate of vertical migration of site-related contaminants to the water table. Grain size, textural analyses, pH, organic matter content, and moisture content were conducted on five samples from the sites. These data were important in determining how long it would take contamination to migrate through the clay layer to the underlying aquifers.

Table 2-3. Site-Specific Sample Analysis Summary for Site Inspection at 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| Site/Sample | Volatile Organic Compounds ¹ | Semivolatile Organic Compounds | Petroleum Hydrocarbons | Metals ² | Lead³ | BTEX* | Pesticides/ PCBs | Oil and Grease |
|-------------------------------|--------------------------------------------|-----------------------------------|---------------------------|---------------------|-------|-------|---------------------|-------------------|
| SITE 1 - Former FTA | | | | | | | | |
| PHASE I | | | | | | | | |
| SB1-1, SB1-2, SB1-3 | | x | × | | Х | | | |
| SB1-4 | X | x | Х | X | x | | | |
| MW1-1, MW1-2, P-8 | X | X | × | × | X | | | |
| PHASE II | | | | | | | | |
| SB1-5 through SB1-10 | X | х | X | X | | | | |
| MW1-1, MW1-2, P-8 | X | Х | X | X | | | | |
| GW1-1 | X | X | | | | | | |
| SITE 3 - HWCA | | | | | | | | |
| PHASE I | | | | | | | | |
| SB3-1, SB3-2, SB3-3, SB3-4 | X | × | × | × | | | X | |
| MW2-1 | X | x | Х | × | | | | |
| PHASE II | | | | i | | | | |
| SB3-5, SB3-6 | × | × | X | × | | | | x |
| MW2-1 | × | × | × | × | | | | × |

122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana (Continued) Table 2-3. Site-Specific Sample Analysis Summary for Site Inspection at

| Site/Sample | Volatile Organic Compounds ¹ | Semivolatile Organic Compounds | Petroleum Hydrocarbons | Metals ² | Lead | BTEX* | Pesticides/ PCBs | Oil and Grease |
|--------------------------------------|--------------------------------------------|-----------------------------------|---------------------------|---------------------|------|-------|---------------------|-------------------|
| SITE 4 - POL Spill Area | | | | | | | | |
| PHASE I | | | | | | | | |
| SB4-1, SB4-2, SB4-3, SB4-4, SB4-5 | X | x | X | X | | | | |
| SD1, SD2 | | X | X | Х | | | | |
| MW4-1, MW4-2 | x | X | X | X | | | | |
| PHASE 2 | | | | | | | | |
| SB4-6, SB4-7, SB4-8 | | | X | | х | × | | |
| SD3, SD4 | x | | Х | | X | | | |
| MW4-1, MW4-2, P-1 | | | X | | × | X | | |
| BACKGROUND | | | | | | | | |
| PHASE I | | | | | | | | |
| BG-1 | x | X | Х | х | | | x | |
| BG-2 | × | X | X | × | | | | |
| BG-3 | × | x | × | X | | | | |
| | | | | | | | | |

'During the scoping of Phase I activities, it was decided that the earth moving activities that occurred at the former FTA after fire training operations had been terminated would have resulted in the volatilization of any remaining VOCs. Therefore, VOC analyses were not performed on soil samples collected from the former FTA during Phase I. This strategy was, however, changed for the Phase II stage.

Metals: As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Sb, Se, Ag, Tl, Zn.

Lead: The focus of investigations at Site 4 during Phase II was to comply with the Federal and State of Indiana UST regulations pertaining to spill response requirements in soil and groundwater samples.

'BTEX: Benzene, toluene, ethylbenzene, and xylenes.

Table 2-4. Summary of Analytical Methods and Parameters for Phases I and II of the Site Inspection at 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| PHASE I | | |
|---------|----------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Media | Parameter | Method |
| Water | Petroleum Hydrocarbons | E418.1 |
| | Volatile Organics | SW 5030/8240 |
| | Priority Pollutant Metals (Be, Cd, Cr, Cu, Ni, Ag, Zn | SW 3005/6010 |
| | Antimony Lead Arsenic Mercury | SW 3005/7041 SW 3020/7421 SW 7060 SW 7470 |
| | Selenium Thallium | SW 7740 SW 3020/7841 |
| | Semivolatile Organics | SW 3510/8270 |
| | Pesticides/PCBs | SW 3510/8080 |
| Soil | Petroleum Hydrocarbons | SW 3550/E418.1 |
| | Volatile Organics | SW 5030/8240 |
| | Priority Pollutant Metals (BE, Cd, Cr, Cu, Ni, Ag, Zr | SW 3050/6010 |
| | Antimony Lead Arsenic Mercury Selenium Thallium | SW 3005/7041 SW 3050/7421 SW 3050/7060 SW 7471 SW 3050/7740 SW 3050/7841 |
| | Semivolatile Organics | SW 3550/8270 |
| | Pesticides/PCBs | SW 3530/3550/8080 |

Table 2-4. Summary of Analytical Methods and Parameters for Phases I and II of the Site Inspection at 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana (Continued)

| PHASE II | | |
|----------|--------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Media | Parameter | Method |
| Water | Petroleum Hydrocarbons | E418.1 ¹ |
| | Oil and Grease | E413.2 |
| | Volatile Organics | CLP SOW 3/90 |
| | BTEX | SW 5030/8020 |
| | Priority Pollutant Metals (Be, Cd, Cr, Cu, Ni, Ag, Zn) | SW 3005/6010 |
| | Antimony Lead Arsenic Mercury Selenium Thallium | SW 3005/7041 SW 3020/7421 SW 7060 SW 7470 SW 7740 SW 3020/7841 |
| | Semivolatile Organics | CLP SOW 3/90 |
| Soil | Petroleum Hydrocarbons Oil and Grease | SW 3550/E418.1 ¹ SW 3550/E413.2 |
| | Volatile Organics | CLP SOW 3/90 |
| | BTEX | SW 5030/8020 |
| | Priority Pollutant Metals (Be, Cd, Cr, Cu, Ni, Ag, Zn) | SW 3050/6010 |
| | Antimony Lead Arsenic Mercury Selenium Thallium | SW 3005/7041 SW 3050/7421 SW 3050/7060 SW 7471 SW 3050/7741 SW 3050/7841 |
| | Semivolatile Organics | CLP SOW 3/90 |

¹E418.1 was used for Sites 1 and 3; modified SW 8015 was used at Site 4 because of UST requirements.

2.9.3 Sediment Sampling

Four sediment samples were collected from drainage features downslope from Site 4 - POL Spill Area during the SI. The samples were collected using a stainless steel scoop and stainless steel bowl. Samples for VOC analyses were collected directly into sample containers. Samples for other analyses were first composited in the stainless steel bowl and then transferred to clean sample containers. The sediment samples were submitted to the laboratory for the analyses listed in Table 2-3.

2.9.4 Groundwater Sampling

Thirteen groundwater samples were collected during the SI to determine if contaminants were present in the groundwater. Six samples were collected during Phase I and seven samples were collected from existing monitoring wells and piezometers during Phase II. The wells were purged and sampled following the procedures detailed in the Field Sampling Plan (SAIC 1990b). The following describes the general approach to purging, sampling, and equipment decontamination procedures used during the SI.

Prior to purging and sample collection, static water level measurements were taken in each well. Depths to groundwater were used to calculate the volume of standing water in each well to determine the volume of water to be purged from each well prior to sampling.

Three to five well volumes of water were purged from each well prior to collection of samples using a bailer. Purging ensured that a representative sample of the aquifer (i.e., not stagnant water) had been collected. Prior to commencement of well purging operations, between wells, and after purging was completed, the equipment was washed with a laboratory-grade detergent and rinsed with potable water (HAZWRAP 1990).

Groundwater samples were collected within 3 hours of purging each well. Samples were retrieved with a Teflon® bailer and dispensed directly into an appropriate sample bottle containing the required preservative (if any was required) for the parameter to be tested. Sample containers were wrapped in packing material and placed in coolers containing ice to maintain

a maximum temperature of 4°C. Sample coolers were then shipped to laboratories by overnight carrier.

2.10 DISPOSAL OF WASTES FROM FIELD ACTIVITIES

The soil cuttings that were generated during the drilling of soil borings were containerized in 55-gallon drums during both phases of the SI. All drums were sealed and labeled. Soil that was not contaminated based on field screening for VOCs or laboratory analyses was disposed of onsite. Analytical results for the remaining soil waste were submitted to Chemical Waste Management of Allen County in an application for disposal of the soil waste at the Adams Center landfill. It is expected that the analytical results will be accepted by Chemical Waste Management and Allen County and that the soils can be disposed of at the Adams Center Landfill.

Wastewater was generated during well development and purging during both phases of the SI. The wastewater was containerized in a 1,000-gallon polyethylene tank. The results from groundwater analyses were submitted to the State of Indiana Department of Environmental Management for evaluation. Permission was granted by the Indiana Department of Environmental Management to dispose of the water into the Base storm drain system because the groundwater contained no significant contaminants (IDEM 1991).

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3. RESULTS AND SIGNIFICANCE OF FINDINGS

This section presents the results of the Site Inspection (SI) conducted at the three sites at the 122nd Tactical Fighter Wing, Indiana Air National Guard Base (ANGB), Fort Wayne, Indiana. A discussion of the general geologic/hydrogeologic characteristics of the Base are presented in Section 3.1. Section 3.2 summarizes the quality assurance/quality control (QA/QC) results for the SI program. Section 3.3 discusses background sampling results. Sections 3.4 through 3.6 provide site-specific information on the analytical results of samples collected and the significance of the results. Figures and tables specific to Sections 3.4 through 3.6 follow the text of the individual sections.

3.1 BASE GEOLOGY AND HYDROGEOLOGY

The following two sections describe the geology and hydrogeology at Indiana ANGB. In general, the soil and groundwater characteristics were consistent throughout the three sites studied on Base. Minor deviations from the following descriptions are presented in the site-specific discussions.

3.1.1 Base Geology

The surface soils in the region of Fort Wayne and the Indiana ANGB are composed of unconsolidated glacial sediments. The regional unconsolidated glacial sediments are predominantly of the New Holland Till Member of the Lagro Formation and Trafalgar Formation, deposited during the Pleistocene epoch. In the vicinity of the Base, these formations are composed of till deposited directly from ice with some local meltwater outwash deposits.

The broad spectrum of glacial deposit sediments as it relates to the geology of the base is subdivided into two major categories: glacial till and outwash. Glacial till is unsorted and unstratified glacial drift that typically contains a significant amount of fine-size particles. Sorted and stratified outwash deposits are dominated by sand and gravel. Associated with glacial activities are lake deposits consisting of silts and clays.

All boreholes drilled during the SI were completed within 60 feet of the ground surface and within the unconsolidated glacial drift. The top 10 to 25 feet of sediment corresponding to the Lagro Formation is clay in varying shades of brown. Below the brown clay is the Trafalgar Formation, which consists of a thicker layer of dark gray clay. Water was encountered during drilling at 35 to 45 feet below ground surface (BGS) in gravel, sand, or silt lenses. Beneath these water-bearing units, the unconsolidated clay layer continues to 60 feet and reportedly continues to the top of bedrock at approximately 70 feet BGS (Bleuer and Moore 1978).

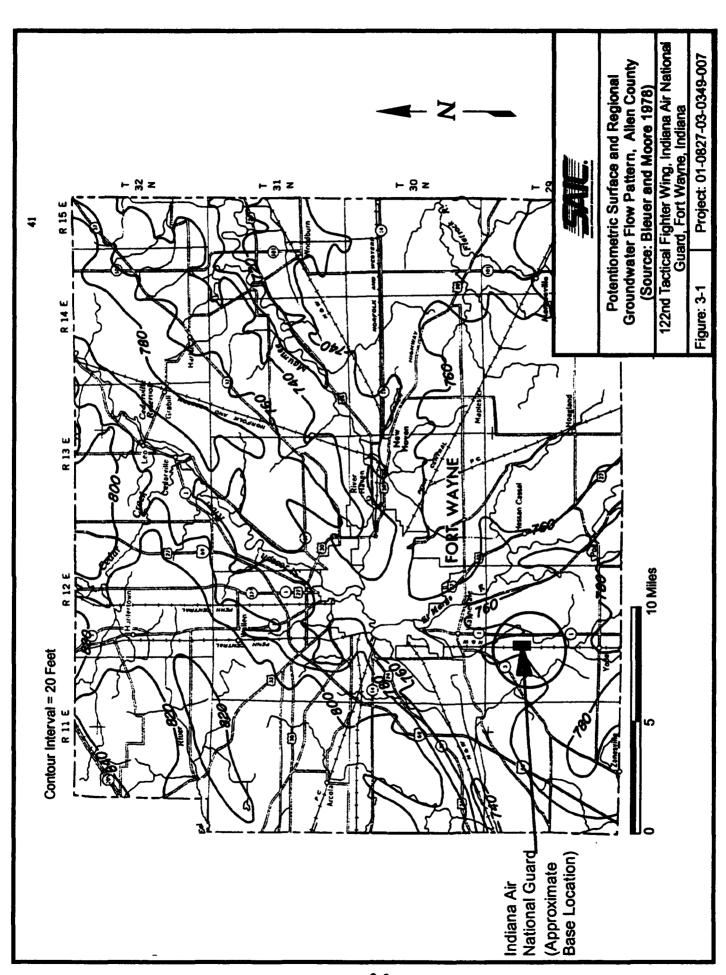
3.1.2 Base Hydrogeology

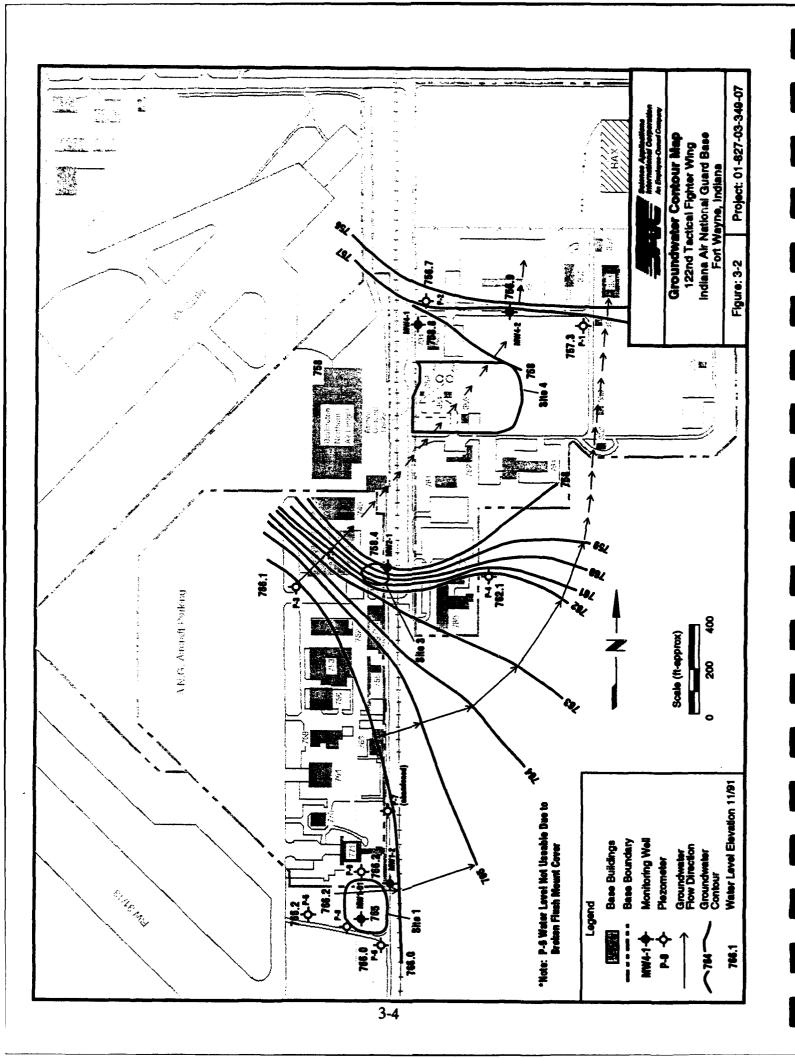
The hydrogeologic characterization of Indiana ANGB is based on lithology encountered during drilling, static water level measurements of wells and piezometers, and aquifer tests.

During the SI, groundwater was encountered in glacial drift aquifers. Water-bearing units were encountered between 767 and 755 feet above mean sea level (MSL) (typically 35 to 45 feet BGS). Deeper bedrock aquifers underlie the clay layer; however, the shallow glacial aquifer is more significant to the SI, since it is more likely to be affected by past disposal practices. The glacial aquifers are unconfined.

Regional groundwater flow patterns indicate that groundwater beneath the Base flows in an east to northeast direction, as shown in Figure 3-1 (Bleuer and Moore 1978). Local groundwater flow direction at the Base also was determined to be east to northeast based on static water levels measured in wells and piezometers during Phase I. This finding was confirmed by additional static water level measurements recorded during Phase II. Figure 3-2 presents groundwater elevation contours and the groundwater flow direction at the Base.

Rising head permeability tests were conducted on three monitoring wells during Phase I of the SI. These tests measured recovery rates of groundwater in the wells. The recovery rates were used to calculate hydraulic conductivity and groundwater flow rates at the Base. Static water level measurement results, permeability test data, graphs of well recovery rates, and the methods used are presented in Appendix D. The range of hydraulic conductivity determined for the three sites was from 2.29 x 10⁻⁵ to 2.96 x 10⁻⁴ cm/sec.





To calculate groundwater flow rates, an average hydraulic gradient was determined, and the porosity of the soils at the Base was assumed. Hydraulic gradient (I) is the change in hydraulic head per unit horizontal distance measured along the slope of the water table. A value of 0.005 was calculated as the average for the Base. The method used for calculating hydraulic gradients and the results are presented in Appendix B. A range of porosity values of 10 to 25 percent for glacial till (Driscoll 1986) was used to calculate the flow rate of the aquifer. The groundwater flow rate was calculated to be 3.8×10^{-6} cm/sec using a porosity of 10 percent, and 1.52×10^{-7} cm/sec using a porosity value of 25 percent. This was determined using the following equation:

Darcy Flow V = KI/n

where:

K = Hydraulic conductivity

I = Hydraulic gradient

n = Porosity.

Cross sections developed from geologic data collected during the field effort indicate that the aquifer is composed of a 10-foot thick zone of silt, sand, and gravel lenses, each ranging in thickness from 1 to 10 feet. The lenses are believed to be hydraulically connected in this region (Bleuer and Moore 1978).

Hydraulic conductivity of the clay layer was not calculated, although it can be assumed to be lower than the aquifer material conductivity of 7.6 x 10⁻⁵ cm/sec. Based on grain size analyses of soil collected just above the sandy gravel aquifer, the soil above the aquifer is classified as clay. The conductivity of water through unconsolidated clay ranges from 10⁻⁹ to 10⁻⁶ cm/sec (Fetter 1980). The results of grain size and textural analyses at each site is presented in Appendix H.

3.2 DATA QUALITY ASSESSMENT

A standardized QA/QC program was followed during the SI conducted at the Indiana ANGB to ensure that analytical results and the decisions based on these results were

representative of the environmental condition at the sites. The objective of the SI was to confirm the presence of contamination, collect and analyze sufficient numbers of samples to determine the lateral and vertical extent of contamination detected during the Phase I field effort, and present recommendations on further actions. The SI was conducted using the Hazardous Waste Remedial Actions Program (HAZWRAP) Levels B and C (i.e., U.S. Environmental Protection Agency [EPA] Levels II and III) QC requirements described in Requirements For Quality Control Of Analytical Data (DOE/HWP-65/R1, July 1990). The results of validated laboratory analyses of soil, sediment, and groundwater samples are presented in Appendix E. The numbers of soil and sediment samples and groundwater samples collected during the SI, in addition to the numbers of field QC samples collected and selected laboratory QC (i.e., matrix spikes and duplicates) samples analyzed, are summarized in Appendix F. The data validation worksheets are referenced within the subsection describing the applicable analysis. The QC checks and results applicable to the Phases I and II field efforts are summarized below.

3.2.1 Data Quality Objectives

The following sections summarize the data quality objectives (DQOs) for precision, accuracy, representativeness, comparability, and completeness (PARCC) obtained during the SI.

3.2.1.1 Precision

Precision was defined as the reproducibility, or degree of agreement, among replicate measurements of the same quantity. The closer the numerical values of the measurements are to each other, the more precise the measurement is. Analytical precision was expressed as the percentage of the difference between results of duplicate samples for a given compound or element. Relative percent difference (RPD) was calculated using the equation given in Appendix F.

Precision was determined using matrix spike/matrix spike duplicate (MS/MSD) and duplicate sample analyses conducted on samples collected for volatile organic compound (VOC), semivolatile organic compound (SVOC), pesticide/polychlorinated biphenyl (PCB) analyses and total petroleum hydrocarbon (TPH), oil and grease, priority pollutant metals, and total dissolved solids (TDS) analyses during the SI. The laboratory selected 1 sample in 20 and split the sample

into 2 additional aliquots. MS/MSD samples were prepared by routinely analyzing the first aliquot for the parameters of interest, while the remaining two aliquots were spiked with known quantities of the parameters of interest before analysis. The RPD between the spike results was calculated and used as an indication of the analytical precision for the VOC and SVOC analyses performed. Duplicate samples (i.e., for priority pollutant metals, oil and grease, TPH, and TDS analyses) were prepared by subdividing 1 sample of every 20 samples received and analyzing both samples of the duplicate pair. The RPD between the spike results was calculated and used as an indication of the analytical precision for VOC, SVOC, and pesticide/PCB analyses performed. The RPD between two detected concentrations was calculated and used as an indication of the analytical precision for the analyses performed.

All RPD values calculated from the VOC analyses were within the EPA Contract Laboratory Program (CLP) advisory control limits for analytical precision. Thirteen RPD values (of 55 total values) calculated from the SVOC analyses and 1 RPD value (of 6 total values) calculated from the pesticide/PCB analyses were outside the EPA CLP advisory control limits for analytical precision. Since each analysis was evaluated according to the required QC criteria described in Section F.3 and all of these criteria were met for the environmental samples analyzed, these RPD values are considered to be a more representative reflection of the variability characteristic of the environmental conditions at the Base, and as a result, the analytical DQO for VOC, SVOC, and pesticide/PCB (for soils only) precision is considered to have been met. The analytical precision DQO for pesticides/PCBs in groundwater could not be evaluated, since the MS/MSD analyses for that matrix was conducted using a field QC blank rather than an environmental sample.

All priority pollutant metals RPD values were within the control limits, except aluminum, arsenic, chromium, copper, lead, manganese, and zinc. As a result, data validation qualifiers were applied to these elements in numerous soil samples associated with those samples analyzed in duplicate. These results are considered to have little impact on the environmental data quality and considered more likely to be a result of the regional matrix variability, since all other analytical QC criteria were met. Therefore, the analytical precision DQO for these metals analyses is considered to have been met. Four RPD values calculated from TPH analysis, one

RPD value calculated from oil and grease analysis, and one RPD value calculated from TDS analysis were within the appropriate limit; therefore, the analytical precision DQO for these analyses is considered to have been met. The analytical QC evaluation criteria used to evaluate precision and all MS/MSD results are discussed in Section F.3.

Sample collection reproducibility and media variability were measured in the laboratory by the analysis of field replicates. Field replicates were collected using the same techniques as those used to collect the environmental samples. One in 10 similar matrices was collected, and sample collection reproducibility and media variability were evaluated based on the RPD values between two duplicate samples. No corrective action was taken based on RPD values.

All soil samples to be analyzed by the laboratory were collected using brass (i.e., for VOC, SVOC, TPH, and oil and grease analyses) and stainless steel (i.e., for priority pollutant metals analyses) liners. Each split spoon was filled with sufficient liners such that replicate samples could be collected at any sample collection interval. After the split spoon sampler was retrieved from the borehole, these liners were capped and labeled and each sample was shipped to the laboratory in the liner. Therefore, the replicate concentrations measured by the laboratory reflect the natural matrix variability inherent in the soil at the Base. Field RPD values were calculated only for compounds and elements detected above the contract required detection limits (CRDLs) in both replicate pair samples and only for those compounds and elements not considered to be common laboratory contaminants (e.g., methylene chloride and zinc). Toluene was detected in one soil replicate pair (i.e., SB1A-3-4 and SB1A-3-4R). The RPD value was calculated at 141 percent. All other VOC, SVOC, and TPH RPD values met the acceptance criteria. Priority pollutant metals replicate RPD values met the evaluation criteria, except for lead in one soil replicate pair (i.e., SB1-3-3 and SB1-3-3R). Based on these RPD results and the acceptable QC results, the sample collection DQO for reproducibility is considered to have been met. A comprehensive discussion of all replicate sample results is presented in Appendix F (Section F.2.4).

3.2.1.2 Accuracy

Accuracy was defined as the degree of difference between measured or calculated values and the true value. The closer the numerical value of the measurement approaches the true value, or actual concentration, the more accurate the measurement is. Analytical accuracy is expressed as the percent recovery of a compound or element that has been added to the environmental sample at a known concentration before analysis. The percent recovery values were determined using the equation given in Appendix F.

Laboratory accuracy was qualitatively assessed by evaluating sample holding times, method blank, tuning and mass calibration (gas chromatography/mass spectrometry [GC/MS] only), system performance compound and surrogate recovery (GC/MS and GC, respectively, only), internal standard (GC/MS only), laboratory control sample (LCS) and method blank spike recovery, and initial and continuing calibration results calculated from all analyses conducted on environmental samples.

Seven (of 150 values), three (of 110 values), and one (of 18 values) percent recovery values were outside the required control limits. All supporting VOC, SVOC, and pesticide/PCB information cited above was qualitatively evaluated with respect to the analytical accuracy. Selected data validation qualifiers were applied to the VOC environmental sample results due to method blank interference (i.e., methylene chloride), internal standard performance, and poor surrogate recoveries. Selected data validation qualifiers were applied to the SVOC environmental sample results due to the exceeded holding times, internal standard performance, and poor surrogate recoveries. Undetected compounds in three soil samples and two groundwater samples were rejected due to the exceeded holding times. In addition, two soil samples and three groundwater samples were rejected due to poor surrogate recoveries. Of the qualified SVOC data points, these values have the greatest adverse impact on the environmental data quality. 4,4'-DDT in one water sample was rejected due to matrix spike recovery. Selected data validation qualifiers were applied to the pesticide/PCB environmental samples due to poor surrogate recoveries.

Data validation qualifiers were applied to 17 antimony, 6 arsenic, and 10 lead concentrations to indicate that these values were rejected due to unacceptable (i.e., less than 30 percent recovery) matrix spike recoveries. Mercury in one groundwater sample was rejected due to the exceeded holding time. In addition, data validation qualifiers were applied to numerous other priority pollutant metals concentrations to indicate that the matrix spike recoveries were outside the applicable control limits. Despite these values, no systematic laboratory error was detected, since all LCS criteria for soil and water samples were met. As a result, all associated soil and groundwater samples data were qualified for data validation purposes, as required by EPA validation quidelines; however, the results are considered to have little impact on the overall data quality. All supporting priority pollutant metals QC information cited above also was qualitatively evaluated with respect to the analytical accuracy DQO. Of this information, numerous data points in selected environmental samples were estimated due to method blank interference and mercury in selected samples was estimated due to the exceeded holding time. Based on the evaluation of the MS/MSD results and the associated QC results summarized in Section F.3, the overall laboratory accuracy is acceptable, and as such, the analytical DOO for accuracy was met, except where noted.

Sampling accuracy was maximized by adherence to the strict QA program presented in DOE/HWP-69/R1. All procedures (i.e., soil boring and monitoring well installation, soil and groundwater collection, equipment decontamination, and health monitoring equipment calibration and operation) used during the Indiana ANGRC SI were documented as standard operating procedures (SOPs). Field QC blanks (i.e., trip blanks, field blanks, and equipment blanks) were prepared to ensure that all samples represent the particular site from which they were collected, assess any cross contamination that may have occurred, and qualify the associated analytical results accordingly.

Data validation qualifiers (e.g., U[FB]) were applied to the methylene chloride, toluene, and acetone in 10 selected environmental samples (i.e., 3 groundwater and 7 soil samples) to indicate that these compounds were considered not detected due to associated field QC blank interference. These samples were validated using the highest concentration of the applicable interferent detected in the associated field QC blank. Data validation qualifiers were applied to

selected priority pollutant metals (i.e., predominantly cadmium, copper, lead, sodium, and zinc) and TDS detected in soil and groundwater samples to indicate that these concentrations are considered estimated, since the concentrations detected in the environmental samples did not exceed five times that detected in the associated field QC blank. Despite the data validation qualifiers, these field QC blanks are not considered to have adversely impacted the soil sample data quality, since metals are relatively nonvolatile and the possibility of cross contamination between field QC blanks and soil samples is remote. Therefore, it is unlikely that the water used to prepare the field QC blanks was a source of those elements and TDS detected in the associated groundwater samples, since the bailer was effectively rinsed numerous times with the sample media during the well preparation activities. Based on an evaluation of the compounds and elements detected in the field QC blanks, the overall field accuracy is acceptable, except where noted. As a result, the field DQO for accuracy is considered to have been met. A comprehensive discussion of the field QC results is presented in Section F.2.

3.2.1.3 Representativeness

Representativeness was defined as the degree to which the data accurately and precisely represent a characteristic of a population, parameter variations at a sampling location, a process condition, or an environmental condition. Sample representativeness was ensured during the SI by collecting sufficient samples of a population medium, properly distributed with respect to location and time. Representativeness was assessed by reviewing the drilling techniques and equipment; well installation procedures and materials; and sample collection methods, equipment, and sample containers used during the SI, in addition to the onsite GC analysis results and evaluating the RPD values calculated from the duplicate samples and the concentrations of interferents detected in the field and laboratory QC blanks. The reproducibility of a representative set of samples reflects the degree of heterogeneity of the sampled medium, as well as the effectiveness of the sample collection techniques.

All monitoring wells were installed using hollow stem auger drilling techniques. This method is commonly used to install monitoring wells to depths less than 100 feet. All samples were collected using the split spoon driven in front of the auger. As originally specified in the project Work Plan, California ring samplers (i.e., brass or stainless steel liners inserted into a

split spoon sampler) were to be used to collect all soil samples. All other data are considered to be representative.

Based on the evaluation of the factors described above and summarized in Section F.3, the samples collected during the SI are considered representative of the environmental condition at Indiana ANGB.

3.2.1.4 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another and is limited to the other PARCC parameters, because only when precision and accuracy are known can one data set be compared to another. To optimize comparability, only the specific methods and protocols that were required by DOE/HWP-65/R1 were used to collect and analyze samples during the SI conducted at the Base. By using consistent sampling and analysis procedures, all data sets were comparable within the sites at Indiana ANGB, between sites at the installation, or among ANGB facilities nationwide, to ensure that remedial action decisions and priorities were based on a consistent data base. Comparability also was ensured by the analysis of EPA reference materials, establishing that the analytical procedures used were generating valid data.

All samples collected for VOC and SVOC analysis were analyzed using EPA methods and the March 1990 EPA CLP Statement of Work (SOW). Table 2-4 contains a list of EPA methods used. Samples collected for pesticides/PCBs, priority pollutant metals, TPH, oil and grease, and TDS analyses were analyzed using EPA methods. A summary of analytical methods and parameters is provided in Table 2-4.

Based on the precision and accuracy assessment presented above, the data collected during the SI at Indiana ANGB are considered to be comparable with the data collected during previous investigations.

3.2.1.5 Completeness

Completeness was defined as the percentage of valid data obtained from a measurement system. For data to be considered valid, they must have met all acceptance criteria, including accuracy and precision, as well as any other criteria specified by the analytical methods used. Based on the evaluation of the field and laboratory QC results presented in Sections F.2 and F.3, 99.4 percent of the sample data collected for VOCs; 91 percent of the sample data collected for SVOCs; 99.7 percent of the sample data collected for pesticides/PCBs; 98.5 percent of the sample data collected for priority pollutant metals; and 100 percent of the sample data collected for benzene, toluene, ethylbenzene, and xylenes (BTEX), TPH, and TDS during the SI were used as the basis for recommendations presented in this report.

Furthermore, project completeness was defined as the percentage of data used to prepare a preliminary risk evaluation and upon which recommendations for site remediation are based. For analytical data to be considered usable for risk evaluation and remediation recommendations, they must be satisfactorily validated. Rejected (i.e., due to holding time, surrogate, and matrix spike recoveries) values and concentrations reported for all analyses were not used in the risk estimates or for remediation recommendations due to the increased potential of using the concentrations of false positive compounds and elements or omitting compounds or elements (i.e., false negatives) that may have an adverse impact on human health. As a result, 564 SVOC, 1 pesticide/PCB, and 35 priority pollutant metals data points were rejected, and as a result, were not included in the preliminary risk evaluation. A complete list of these data points is presented in Appendix F.

3.2.2 Tentatively Identified Compounds

As required by the March 1990 EPA CLP SOW for organics analyses, those compounds (up to a maximum of 10 compounds) detected that cannot be identified as a CLP target volatile compounds were reported with the sample results (i.e., Form I) as tentatively identified compounds (TICs) on Form I VOA-TIC. A maximum of 20 semivolatile compounds were reported as TICs on Form I SVO-TIC. TICs were defined as compounds for which standard reference material was not used (or not available) to calibrate the GC/MS or to produce a daily reference mass spectrum that is unique for that compound. The exact identification is uncertain,

since the compound is identified by comparing the mass spectrum with those (i.e., the mass spectra of more than 50,000 compounds) in the National Institute of Science and Technology (NIST) library of mass spectra contained in the GC/MS data system, as required by the EPA CLP, and not with that of a standard. The concentration of each compound detected was calculated by using a response factor of one compared to the nearest internal standard. All TICs are reported as estimated (i.e., "J") concentrations, since the response factor also is estimated.

The VOC and SVOC TIC data were used to recommend additional remedial measures (or to develop no further action Decision Documents at sites where VOC and SVOC TICs were not detected), since the hydrocarbons that make up the JP-4 fuel mixture are not CLP target compounds, except benzene, toluene, ethylbenzene, p-xylene, o-xylene, naphthalene, and 2-methyl-naphthalene. As a result, most petroleum fuel hydrocarbons that make up JP-4 are reported as VOC and SVOC TICs, if detected in a soil or water sample. Furthermore, the TICs potentially might be the only indicator of contamination at some sites where fuel spills occurred or fire training activities were conducted in decades past, since the VOCs are volatile and would likely not be detected and the SVOCs make up less than 0.5 percent (by weight) of any given JP-4 mixture. For the purposes of the SI, VOC and SVOC TICs that could not be directly attributed to laboratory method blank or field QC blank interference were used to indicate contamination resulting from past JP-4 use at the applicable site. All TIC concentrations were summed and reported in the Appendix E data presentation tables as a single estimated value. The number of individual compounds reported was presented in parentheses adjacent to the cumulative concentration.

3.3 BACKGROUND SAMPLING

Three background borings were drilled and sampled during the SI program. One boring (BG1) was drilled during Phase I and two samples were collected, one at 0 to 2 feet BGS and the other at 3 to 5 feet BGS. Two additional borings (BG2 and BG3) were drilled during Phase II activities. Three samples were collected from each of the two borings: one at the surface (0 to 2 feet BGS), one at the water table interface, and one at a depth half the distance to the water table. The intent of the background samples was to establish a baseline for contaminant concentrations for comparison to site-related contaminant concentrations. The locations of the

borings are shown in Figure 3-3. The analytical results for soil samples collected from the background borings are presented in Table 3-1.

As shown in Table 3-1, TPHs were detected at 670 mg/Kg in the surficial background sample collected from BG1. In boring BG2 drilled during Phase II, TPH were detected at 220 mg/Kg in the surficial sample (0 to 1.5 feet BGS), and at 100 mg/Kg in the sample collected at 3 to 4.5 feet BGS. Toluene was detected in samples collected from all borings (BG1, BG2 and BG3) drilled during the SI (Table 3-1). Some SVOCs were detected in the surficial sample (0 to 2 feet BGS) from boring BG1, and in samples collected from boring BG2. Boring BG1 was drilled just east of the Base entrance Guard House in an area not impacted by any of the three sites. Potential sources of petroleum hydrocarbons in boring BG1 surface soil include analytical interferences from naturally occurring organic material in the soil or hydrocarbons exhausted from the numerous vehicles entering and exiting the Base. The analytical method used for TPH during Phase I (EPA 418.1) was changed to EPA SW Method 8015 during Phase II in order to detect only anthropogenic petroleum contaminants. PAHs are products of incomplete combustion and also may have occurred in BG1 surface soil as a result of vehicle exhaust.

At boring BG2 drilled during Phase II, contaminants detected in the soil samples are most likely from a source not related to Site 1 activities. This boring was drilled upslope from Site 1 -Former Fire Training Area (FTA) as confirmed by surveying activities and is outside of Site 1 boundaries. As explained in Section 3.4, contamination that might result from fire training activities at Site 1 would most likely be detected at the former FTA surface, which is downslope from BG2 and approximately 10 to 12 feet BGS.

Background analytical results represent conditions not associated with site activities. Petroleum hydrocarbons and PAHs observed in some background surface samples are most likely from operations that are routinely conducted at the Base. Operations such as aircraft maintenance and flight testing are routinely conducted and will continue to be conducted in the future. Therefore, background data obtained for the Base were used in evaluating the significance of site-specific field and laboratory results.

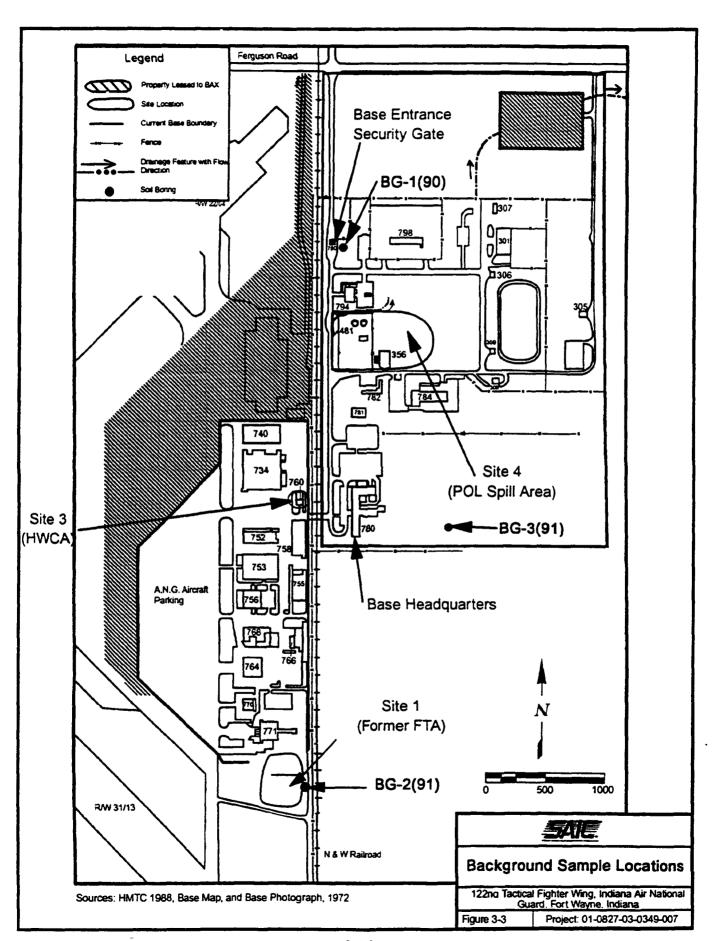


Table 3-1. Summary of Analytical Results for Background Samples, 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| Sample No. | BG1-1 | BG1-2 | BG2-1 | BG2-2 | BG2-3 | BG2-4 |
|--------------------------------------|------------------|--------------------|-------------|-----------|------------------|---------------------------|
| Depth (ft. BLS) | 0 - 2 | 3 - 5 | 0 - 1.5 | 3 - 4.5 | 20 - 21.5 | 37 - 39 |
| Sample Date | 8/90 | 8/90 | 11/91 | 11/91 | 11/91 | 11/91 |
| Matrix | Soil | Soil | Soil | Soil | Soil | Soil |
| Parameter | | | | | | |
| Metals (mg/Kg) | | | | | | |
| Алтітопу | NT | NT | ND | ND | 3.5J(NB) | ND |
| Arsenic | NT | NT | 8.5 | 9.3 | 7.6 | 7.1 |
| Beryllium | 1 | 2.8 | 0.69J(B) | 0.6J(B) | 0.5J(B) | .6J(B) |
| Cadmium | 0.34J(MB,B) | 0.49J(MB,B) | 0.67J(MB,B) | 0.34(B) | 0.71J(MB,B) | 0.6J(MB,B) |
| Chromium | 15.5 | 34 | 22.2 | 21.1 | 16.7 | 19.1 |
| Copper | 13 J(FB) | 29.3 | 30.2J(N*) | 28.6J(N*) | 24.8J(N*) | 23J(N*) |
| Lead | NT | NT | 30.6 | 14.1 | 9.1 | 10.3 |
| Nickel | 11 J(MB) | 28.3 | 26.3 | 34.7 | 27.9 | 37.4 |
| Thallium | NT | NT | 0.28J(B) | 0.4J(B) | 0.4J(B) | 0.5 J (B) |
| Zinc | 41.9J(FB) | 71.9 J(FB) | 75.9 | 93 | 72.3 | 76.1 |
| Total Petroleum Hydrocarbons (mg/Kg) | 670 | ND | 220 | 100 | ND | ND |
| Volatile Organics (μg/Kg) | | | | | | |
| Toluene | NT | 180J(SSR,IS) | 2(J) | 31 | 41 | ND |
| Semivolatile Organics (µg/Kg) | | ND | | | ND | ND |
| 2,4-Dinitrotoluene | ND | ND | 3,400 | ND | ND | ND |
| Benzo(a)anthracene | ND | ND | 1,000 | ND | ND | ND |
| Benzo(a)pyrene | 210(J) | ND | 1,100 | ND | ND | ND |
| Benzo(b)fluoranthene | 170(J) | ND | 2,200 | 1,000 | ND | ND |
| Benzo(k)fluoranthene | 320(J) | ND | ND | ND | ND | ND |
| Bis(2-ethylhexyl)phthalate | ND | ND | ND | 370 | ND | ND |
| Chrysene | ND | ND | ND | 490 | ND | ND |
| Fluoranthene | ND | ND | 1,500 | 920 | ND | ND |
| Fluorene | 220(J) | ND | ND | ND | ND | ND |
| N-Nitrosodiphenyl-amine | ND | ND | 800 | ND | ND | ND |
| Phenanthrene | ND | ND | 600 | 420 | ND | ND |
| Pyrene | 190(J) | ND | 1,600 | 880 | ND | ND |

ND - Not Detected (with no accompanying data validation qualifiers); NT - Not Tested

J - Concentration should be considered as an estimate

U - Compound/element was not detected, but is presented with accompanying data validation qualifier

R - Data rejected

Note: A list of relevant data validation qualifiers is included at the end of Table 3-1.

Table 3-1. Summary of Analytical Results for Background Samples, 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana (continued)

| | T | r - | |
|--------------------------------------|-----------|-----------------|-------------|
| Sample No. | BG3-1 | BG3-2 | BG3-3 |
| Depth (ft. BLS) | 0 ~ 1.5 | 15 - 16.5 | 29 - 30.5 |
| Sample Date | 11/91 | 11/91 | 11/91 |
| Matrix | Soil | Soil | Soil |
| Parameter | | | |
| Metals (mg/Kg) | | | |
| Antimony | ND | ND | ND |
| Arsenic | 7.8 | 7.3 | 1.21J(MB,B) |
| Beryllium | 0.75J(B) | 0.53J(B) | ND |
| Cadmium | ND | 0.48J(MB,B) | ND |
| Chromium | 16.3 | 17.9 | 3.9 |
| Copper | 46.2J(N*) | 21.9J(N*) | 7.9J(N*) |
| Lead | 20.6 | 9.3 | 2J(FB) |
| Nickel | 19 | 30.9 | 6J(MB,B) |
| Thallium | ND | 0.43J(B) | ND |
| Zinc | 85.9 | 63.8 | 16.1J(MB) |
| Total Petroleum Hydrocarbons (mg/Kg) | ND | ND | ND |
| Volatile Organics (µg/Kg) | | | |
| Toluene | 110J(IS) | 110 | ND _ |
| Semivolatile Organics (µg/Kg) | ND | ND | ND |

J - Concentration should be considered as an estimate

U - Compound/element was not detected, but is presented with accompanying data validation qualifier

R - Data rejected

List of Data Validation Qualifiers Applicable to Table 3-1

- J(B)[metals] the reported value is estimated because it is greater than the instrument detection limit (IDL), but less than the contract required detected limit (CRDL).
- J(MB) the reported value is estimated because the element also was detected in the associated laboratory method blank.
- J(FB)[metals] the reported value is estimated because the element also was detected in the associated field blank.
- J(N)[metals] the reported value was estimated because spike recovery is outside the control limits.
- J(*)[metals] the reported value was estimated because duplicate sample analysis is outside the control limits.
- J(IS), UJ(IS) the reported value was estimated because internal standard area is outside the control limits.
- J(SSR) the reported value was estimated because surrogate recovery is outside the required control limits.

3.4 SITE 1 - FORMER FIRE TRAINING AREA

Site 1 - Former Fire Training Area (FTA) was used from the late 1950's until 1972 when fire training activities were terminated at this location. The location of this site is shown in Figure 1-2. During the time the former FTA was used, approximately 500 gallons of aviation fuel were burned per year for a total of 9,500 gallons during the time the former FTA was in operation. After fire training operations ceased, the area was filled primarily with native clay and some construction debris, and graded to form the current topography at the site. The former FTA surface is approximately 10 to 12 feet below the current ground surface. The intervening surface consists of backfill material, which is mostly clay and silty sand.

The site history and the present topography and subsurface conditions should be kept in perspective when evaluating the nature and extent of contamination at Site 1. Since the former FTA surface is located approximately 10 to 12 feet BGS, any contamination that is related to fire training activities conducted at the site would be expected to be detected at or below the former surface. The focus of the SI, however, was not only to determine the presence of site-related contamination within the former FTA surface, but also at the current ground surface. This was because the significance of any contamination present above the former FTA surface, although not related to fire training activities, should be evaluated. Accordingly, soil samples were collected above, at, and below the former FTA surface.

Ten soil borings were drilled at the site. Four borings were drilled during Phase I activities in August 1990, and six borings were drilled during Phase II activities in October and November 1991. Groundwater samples were collected from two downgradient monitoring wells and one piezometer installed upgradient from the FTA site, and from an open soil boring drilled in the center of the former FTA. The following sections present the findings of the SI field investigations conducted at Site 1. A presentation and discussion of the laboratory results of soil and groundwater samples collected at the site is included. A brief discussion on the subsurface geologic profile, information on groundwater flow direction, and conclusions drawn concerning the nature and extent of contamination also are presented.

3.4.1 Site-specific Geologic Discussions

The geologic and hydrogeologic characteristics are similar to the description of Base characteristics discussed in Section 3.1 except for the presence of fill material overlying the former ground surface and a more easterly groundwater flow direction. Groundwater flow at Site 1 was determined from static water level measurements of five piezometers installed around the site, and two monitoring wells installed at the site. In the area of the former FTA, groundwater flows east-northeast; groundwater flow under the Base-is generally northeast. The location and depiction of a cross section showing the general geology at Site 1 are shown in Figures 3-4 and 3-5, respectively.

A layer of fill material composed primarily of native clay and reportedly some construction debris (HMTC 1988) was deposited over the Site 1 area (Figure 3-4); however, during drilling activities at Site 1, no significant areas of construction debris were encountered. The clay forming the fill layer appeared to have the same characteristics as the native clay found throughout the Base. The fill layer ranges in depth from approximately 5 to 13 feet above the former ground surface. In the area of the former FTA, the fill layer is 10 to 12 feet BGS. The fill material covers an area approximately 255 by 300 feet. Based on the results of the surveying conducted to delineate the former FTA boring and discussions with the former Base Fire Chief, the FTA comprises an area approximately 15 by 90 feet.

3.4.2 Soil Sampling Results

An evaluation of analytical results for soil samples collected from the 10 borings at Site 1 - Former FTA are presented below. The borings drilled at the site are designated SB1-1 through SB1-10. The locations of these borings are shown in Figure 3-6. The analytical results for the soil samples collected from the former FTA are shown in Table 3-2; profiles depicting the concentrations of contaminants detected in the soil samples are shown in Figure 3-7.

The analytical results for the soil samples from the former FTA have been divided into two groups to effectively evaluate the data: 1) results of samples collected above the former FTA surface (5 to 12 feet BGS), and 2) results from soils at and below the former FTA surface (from 5 feet below current ground surface to the water table).

3.4.2.1 Analytical Results of Samples Collected Above the Former FTA Surface

The following briefly summarizes the analytical results for samples collected above the former FTA surface (Table 3-2):

- TPH were detected in samples SB1-4-1 (collected in the surficial 0- to 2-foot layer) at 2,400 mg/Kg and SB1-10-2 (collected at 5 to 6.5 feet BGS) at 1,900 mg/Kg.
- Organics detected in samples collected above the former FTA surface were toluene at 80 μg/Kg in sample SB1-4-1; four PAHs (i.e., benzo(a)pyrene, benzo(b)fluoranthene, fluoranthene, and pyrene) in sample SB1-7-1 (however, only fluoranthene levels should be considered for evaluation, as concentrations of the other three compounds are only estimates); toluene and several PAHs in sample SB1-9-1; acetone, toluene, and the same four PAHs listed above in sample SB1-10-1; and acetone, methylene chloride, and toluene in sample SB1-10-2.
- Several metals were detected in all samples collected above the former FTA surface, including antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, thallium, and zinc. Not all of the metals were detected in all samples; as evidenced from Table 3-2, the average concentrations of most of the metals detected are below background concentrations. Only arsenic and nickel in the top 2 feet of soils were slightly above background concentrations in the same depth interval.

3.4.2.2 Analytical Results of Soil Samples Collected Below the Former FTA Surface

In soil samples collected at and below the former FTA surface, site-related contaminants were predominantly detected in SB1-5 (which was drilled in the center of the former FTA), SB1-4, and SB1-7. Contaminants were detected in samples from borings SB1-2, SB1-8, SB1-9, and SB1-10, but these contaminants are either not considered to be related to the fire training activities or are otherwise not considered to be significant, as explained later in this section. The following summarizes the analytical results for samples collected below the former FTA surface from borings SB1-4, SB1-5, and SB1-7:

- In samples from boring SB1-4, TPH were detected at 1,500 mg/Kg at the former FTA surface, and at 1,400 and 1,100 mg/Kg in two samples collected below the surface. Benzene, toluene, ethylbenzene, and SVOCs, including several PAHs, also were detected in these samples.
- In samples from boring SB1-5, benzene, toluene, and 4-methylphenol were detected at the former FTA surface (10 to 11.5 feet BGS).

- Samples collected from boring SB1-7 showed the presence of TPH at 200 mg/Kg, and acetone, methylene chloride, toluene, and SVOCs, including several PAHs, in the sample collected at the former FTA surface (8.5 to 10 feet BGS).
- The same VOCs also were detected in the sample collected 5 feet below the former FTA surface (15 to 16.5 feet BGS) in boring SB1-7; however, no SVOCs were detected in this sample.

The following briefly summarizes additional analytical results from samples collected at and below the former FTA surface:

- TPH were found at 630 mg/Kg in sample SB1-2-3 collected at 14 to 18 feet BGS; no SVOCs were detected in this sample.
- No TPH or SVOCs were detected in boring SB1-3.
- Only methylene chloride at 56 μ g/Kg was detected in boring SB1-6; methylene chloride was detected in sample SB1-6-5 collected at 25 to 26.5 feet BGS.
- Acetone, toluene, and methylene chloride were detected in samples from SB1-8.
- VOCs, such as acetone, methylene chloride, and toluene, were detected in samples from boring SB1-9; however, several of the VOC concentrations are considered to be estimates (Table 3-2).
- The contamination distribution scenario observed in boring SB1-10 was similar to that in boring SB1-9.
- Metals detected in all samples are considered to be within background levels; the significance of these levels will be evaluated through a preliminary risk evaluation.

3.4.2.3 Evaluation of Soil Sampling Results

Based on physical inspection (visual appearance and prevalence of odor) of soil samples collected during the drilling of boring SB1-5, it appeared that the former FTA had been encountered. The field screening equipment used during field activities also detected the presence of organic vapors. However, the only contaminants detected in this boring were BTEX compounds found at the former FTA surface. A review of the actual operation of the fire training activities revealed that some unburned fuel remained at the end of each fire training event. At that time, the terrain at the fire training area sloped downward from east to west uniformly across the length (the long axis) of the burn area. Unburned flammable liquids

possibly were carried westward from the burn area. This is evidenced from the results of the samples collected from borings SB1-4 and SB1-7.

Soil boring SB1-4 was completed at approximately 50 feet west and downslope from the former FTA, due west of the southern extent of the FTA. Samples from this boring near the former FTA surface showed the presence of PAHs and TPH. Soil boring SB1-7 was completed approximately 75 feet west and downslope from the former FTA, due west of the northern extent of the FTA. Samples at the former FTA surface from this boring contained 13 PAHs ranging from 71 to 1,700 μ g/Kg and TPH at 200 mg/Kg. It appears that some of the unburned fuel from the FTA also reached this location.

In boring SB1-4, TPH were detected at the current land surface, 8 to 10 feet, 10 to 12 feet, and 12 to 14 feet BGS in decreasing concentrations from the current land surface. The presence of the high TPH in the surficial samples from the current land surface is not related to the fire training activities and is probably from another source originating at the current land surface. Therefore, the high levels of TPH and PAHs observed at the former FTA surface and below might partially be from this unknown source in addition to contaminants that may have migrated from the former FTA itself. In boring SB1-7, the four PAHs detected in the surficial samples are not considered to be related to the fire training activities and could possibly be a result of jet exhaust or recent burning at other locations.

Contaminants were not detected in soil boring SB1-6. This boring is located just north of the northern extent of the burn area. The absence of contaminants in SB1-6 indicates that contaminants primarily migrated downslope to the west and not to the north of the burn area.

Contaminants were not detected at the former FTA surface in soil boring SB1-9. This boring is located approximately 35 feet south of the southern end of the burn area. The absence of contaminants in SB1-9 indicates that the contaminant migration to the south was limited and confirms that the principal direction of contaminant migration was downslope to the west. The PAHs detected at the current land surface in this boring are not site-related, since they most

likely did not originate at the former FTA surface. The contamination may be due to aircraft exhaust or recent burning at other locations.

Contaminants were detected at the former FTA surface in boring SB1-10. this boring is located approximately 80 feet west of what is most likely the western extent of site-related contamination. The high occurrence of TPH in boring SB1-10 from 5 to 6.5 feet BLS is similar in concentration to TPH detected in boring SB1-4 and is not related to former FTA activities. Boring SB1-10 is beyond the extent of contamination delineated by the other borings and probably originates from a source closer to the airport runways west of Site 1.

3.4.3 Groundwater Sampling Results

Groundwater samples were collected during both phases of the field activities from monitoring wells MW1-1 and MW1-2, which are located downgradient from the former FTA (Figure 3-6). A sample also was collected from piezometer P-8, which is located upgradient from the site.

During each phase, the groundwater samples were analyzed for metals, TPH, VOCs, and SVOCs. The results of groundwater analyses for both Phases I and II are summarized in Table 3-3. In addition, one water sample was collected from boring SB1-5; this sample was collected when the water table interface was encountered and was analyzed only for organics (VOCs and SVOCs).

As shown in Table 3-3, no organics were detected in any of the groundwater samples. In addition, no organics were detected in sample GW1-1 collected from boring SB1-5. Several metals were detected in the groundwater samples. In particular, among the metals of concern (based on effects to public health and the environment), arsenic, chromium, lead, and nickel were detected during Phase II sampling; however, only arsenic and lead were detected during Phase I sampling. Only copper, lead, and zinc were detected in all samples collected during both phases (Table 3-3). Chromium and beryllium were detected in three of the six samples collected, arsenic in five samples, and nickel in four samples.

As mentioned in Section 3.4.2, except for arsenic and nickel in the top 2 feet of soils, the concentrations of all other metals detected in site soils are within background levels for the entire Base. The concentrations of metals detected in groundwater at the site are not considered to be entirely site related. Metals tend to be adsorbed easily to soils and are not easily transported by infiltrating water. Solubility of metals in water is mainly a function of oxidation state and pH. In a reducing environment or at a low pH, the solubility of metals increases; with increasing pH or oxidation, metals species are less soluble and precipitate out of the solution. Based on geotechnical tests conducted, pH of the site soils is between 7.7 and 8.2. At these pH levels, solubility of metals will be low. In addition, metals in the soil environment are relatively stable due to high sorption properties (high octanol/water partitioning coefficient). Therefore, metals mobility is limited in the soil environment at Site 1.

Based on site history, volatile organics would more likely be found in the soils, especially fuel-related compounds and compounds that are a result of combustion operations (e.g., PAHs). This is because, in comparison to metals, some halogenated organics would more easily tend to be transported through the soil matrix. However, no VOCs were detected in groundwater and only some VOCs were detected in the site soils at low concentrations. The metals concentration detected in site groundwater can be considered to consist of the following three groups:

- Fraction that is naturally occurring in groundwater
- Fraction that is site related
- Fraction that is due to contributions from other sources.

Based on an evaluation of the analytical results and review of the site geology, the fraction that is due to site-related contamination is considered to be minimal. It is difficult to estimate the fraction of metals concentration in groundwater that is actually from the site. However, it appears certain that the concentration of metals detected in groundwater is not entirely related to site activities. The significance of the concentration of metals detected in groundwater will be measured by comparison of the concentrations against applicable or relevant and appropriate requirements (ARARs).

3.4.4 Summary and Extent of Soil and Groundwater Contamination

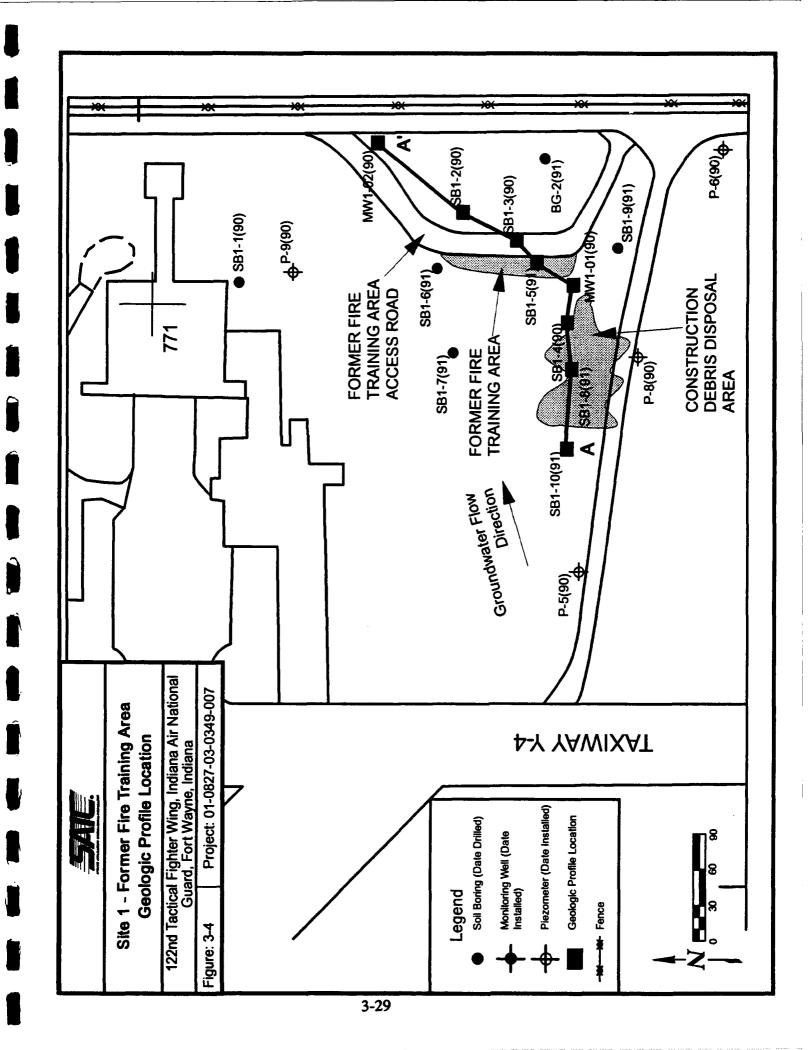
Contamination at Site 1 - Former FTA resulting from fire training activities appears to be present in soil only in an area immediately downslope from the former FTA. The area of contamination extends 60 to 80 feet west of the burn area and approximately 5 feet below the surface of the former FTA. The predominantly downslope migration of contaminants to the west is indicated by the presence of site-related contaminants in the soils west of the burn area and the absence of contaminants to the north (SB1-6), south (SB1-8 and SB1-9), or east (SB1-3). The western limit of contamination is presumed to be less than 85 feet from the burn area because no contaminants were detected in boring SB1-8 (located approximately 85 feet west of the southern extent of the burn area). The absence of contaminants at SB1-8 indicates that contaminants have not migrated south or west of this sampling point. The former terrain at Site 1 sloped downward from east to west uniformly across the length of the burn area; therefore, it is assumed that the contaminants from the burn area were likely to migrate uniformly downslope with surface flow.

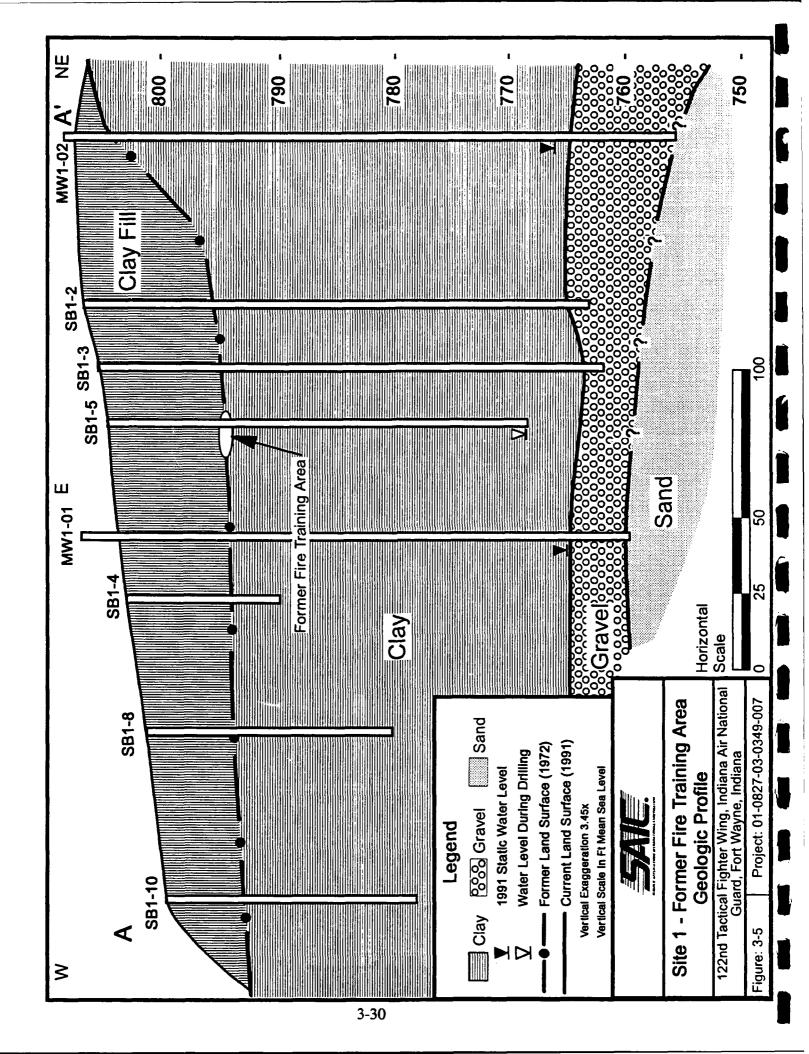
Another significant finding is that contaminants were not detected in subsurface soil at depths greater than 5 feet below the former FTA surface. Therefore, the vertical extent of soil contamination related to the former FTA does not exceed 17 feet BGS. The clay layer below the former FTA surface has apparently limited the vertical migration of contaminants.

The site-related contamination consists of BTEX compounds that are major components of aviation fuel, and SVOCs, which include several PAHs. PAHs are products of combustion and typically are found in areas where combustion has occurred.

No contaminants were detected in the groundwater. This is consistent with the soil sampling results, which indicate that contaminants have not migrated beyond 5 feet below the former FTA surface. The former FTA surface is capped by a layer of clay, which retards surface water infiltration. The thick clay layer that exists throughout the subsurface at the site appears to have contained the vertical migration of any contaminants in the vicinity of the former FTA surface and will continue to do so in the future.

Based on an evaluation of analytical results and a review of the site geology, it appears that the overall significance of the observed nature and extent of contamination is minimal. In addition, a preliminary risk evaluation was conducted to determine risks to public health and the environment due to the presence of observed contamination at the site. The results of this assessment are presented in Section 4.





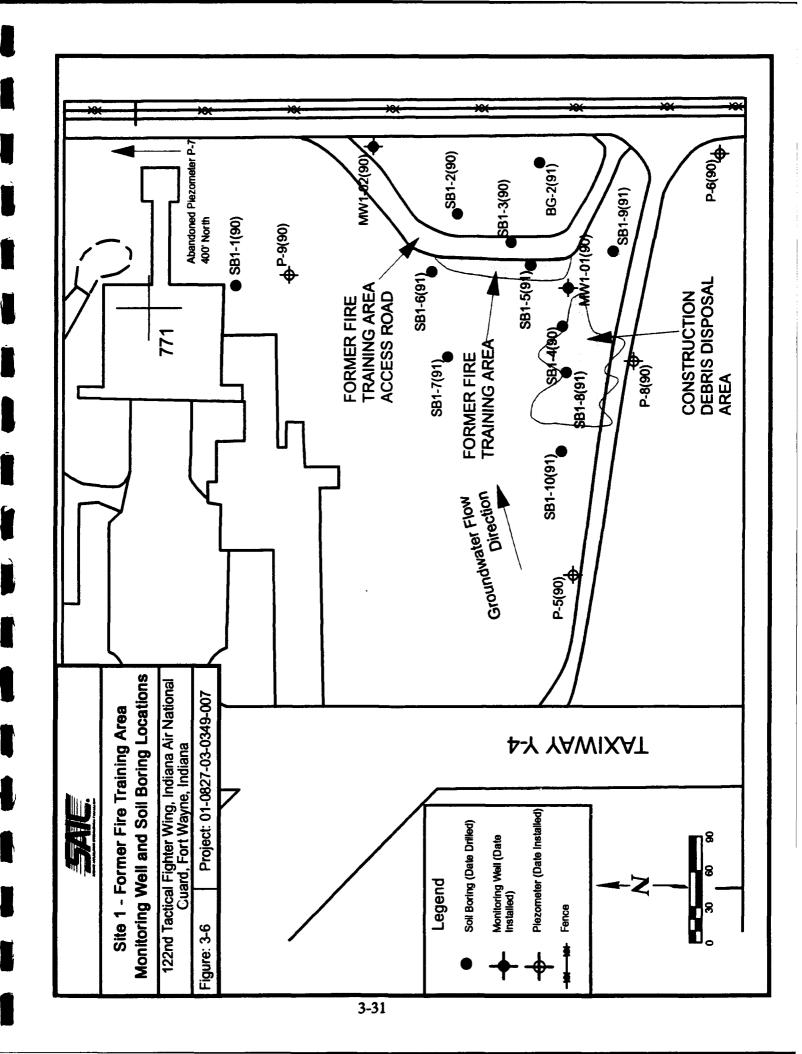


Table 3-2. Summary of Analytical Results for Soil Samples from
Site 1 - Former Fire Training Area

122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| Sample No. | SB1-1-11 | SB1-1-12 | SB1-2-3 | SB1-2-16 |
|--------------------------------------|--------------------------------|------------------|-------------------------|---------------------------|
| Depth (ft. BLS) | 30-32 | 31-33 | 14-18 | 42-44 |
| Sample Date | 8/90 | 8/90 | 8/90 | 8/90 |
| Matrix | Soil | Soil | Soil | Soil |
| Parameter | | | | |
| Metals (mg/Kg) | | | | |
| Beryllium Cadmium | 1.3 0.22J(MB,B) | 0.74 ND | 1.4 0.24J(MB,B) | 0.93 ND |
| Chromium Copper | 11.1 29.2 | 7.9 24.6 | 24.6 19.7 | 18.3 27 |
| Lead Nickel Zinc | 12.8 16.9J(MB) 29.6J(FB) | 7.0 17 172 | 14 23.3 62.3J(FB) | 17.9 22.2 42.3J(FB) |
| Total Petroleum Hydrocarbons (mg/Kg) | ND | ND | 630 | ND |
| Volatile Organics (µg/Kg) | NT | NT | NT | NT |
| Semivolatile Organics (µg/Kg) | ND | ND | ND | ND |

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

R - Data rejected.

Table 3-2. Summary of Analytical Results for Soil Samples from

Site 1 - Former Fire Training Area

122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana (Continued)

| Sample No. | SB1-3-2 | SB1-3-5 | SB1-3-17 |
|--------------------------------------|-----------|-------------|-------------|
| Depth (ft. BLS) | 12-14 | 18-20 | 42-44 |
| Sample Date | 8/90 | 8/90 | 8/90 |
| Matrix | Soil | Soil | Soil |
| Parameter | | _ | |
| Metals (mg/Kg) | | | |
| Beryllium | 2.0 | 1.7 | 0.94 |
| Cadmium | 0.6J(MB) | 0.34J(MB,B) | 0.21J(MB,B) |
| Chromium | 27.0 | 20.6 | 9.6 |
| Copper | 19.3 | 27.8 | 34.7 |
| Lead | 13.7 | 10 | 7.5 |
| Nickel | 29.7 | 26.2 | 23.8 |
| Zinc | 66.0J(FB) | 54.4J(FB) | 33.2J(FB) |
| Total Petroleum Hydrocarbons (mg/Kg) | ND | ND | ND |
| Volatile Organics (μg/Kg) | NT | NT | NT |
| Semivolatile Organics (μg/Kg) | ND | ND | ND |

J - Concentration should be considered as an estimate.

U - Compound/element was not detted, but is presented with accompanying data validation qualifier.

R - Data rejected.

Table 3-2. Summary of Analytical Results for Soil Samples from
Site 1 - Former Fire Training Area
122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana (Continued)

| Sample No. | SB1-4-1 | SB1-4-2 | SB1-4-3 | SB1-4-4 |
|--------------------------------------|--------------------------|--------------------------|--------------------------|----------------------------|
| Depth (ft. BLS) | 0-2 | 8-10 | 10-12 | 12-14 |
| Sample Date | 8/90 | 8/90 | 8/90 | 8/90 |
| Matrix | Soil | Soil | Soil | Soil |
| Parameter | | | | |
| Metals (mg/Kg) | | | | |
| Beryllium Cadmium Chromium | 1.7 0.66J(MB) 19.4 | 1.3 0.49J(MB) 16.6 | 1.7 0.79J(MB) 20.5 | 1.6 0.37J(MB,B) 19.5 |
| Copper | 24.8 | 29.2 | 30.3 | 34.2 |
| Lead | 23.0 | 12.2 | 15.5 | 13.9 |
| Nickel | 24.8 | 22.3 | 29.1 | 31.4 |
| Zinc | 64.8 | 55.8 | 76.2 | 67.7 |
| Total Petroleum Hydrocarbons (mg/Kg) | 2,400 | 1,500 | 1,400 | 1,100 |
| Volatile Organics (μg/Kg) | | | | |
| Benzene | ND | ND | 10 | ND |
| Ethylbenzene | ND | ND | ND | 93 |
| Toluene | 80 | 270J(SSR,IS) | 67 | 350 |
| Semivolatile Organics (µg/Kg) | | | | |
| Anthracene | ND | ND | ND | 280(J) |
| Phenanthrene | ND | ND | 360(J) | 1,100 |
| Fluoranthene | ND | ND | 730 | 1,100 |
| Pyrene | ND | ND | 730 | 1,000 |
| Benzo(a)anthracene | ND | ND | 560 | 530 |
| Chrysene | ND | ND | 620 | 560 |
| Benzo(b)fluoranthene | ND | ND | 720 | 530 |
| Benzo(k)fluoranthene | ND | ND | 800 | 580 |
| Benzo(a)pyrene | ND | ND | 790 | 540 |
| Indeno(1,2,3-cd)pyrene | ND | ND | 610 | 330(J) |
| Dibenzo(a,h)anthracene | ND | ND | 260(J) | ND |
| Benzo(g,h,i)perylene | ND | ND | 760 | 370(J) |

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

R - Data rejected.

Table 3-2. Summary of Analytical Results for Soil Samples from

Site 1 - Former Fire Training Area

122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana (Continued)

| | 001.51 | and 5.0 | 07150 | on 1 5 7 |
|--------------------------------------|-----------|----------------------|-------------------|-------------|
| Sample No. | SB1-5-1 | SB1-5-2 | SB1-5-3 | SB1-5-7 |
| Depth (ft. BLS) | 0-1.5 | 10-11.5 | 13.5-15 | 35-36.5 |
| Sample Date | 11/91 | 11/91 | 11/91 | 11/91 |
| Matrix | Soil | Soil | Soil | Soil |
| Parameter | | | | |
| Metals (mg/Kg) | | | | |
| Arsenic | 9.5 | 9.8 | 9.8 | 8J(*) |
| Beryllium | 0.33J(B) | 0.8J(B) | 0. 56J(B) | 0.40J(B) |
| Cadmium | ND | 0.7 4J(MB,B) | 0.83J(B) | 0.33J(MB,B) |
| Chromium | 8.5 | 18.6 | 19 | 17.3 |
| Copper | 22.4J(N*) | 27.4J(N*) | 39.0J(N*) | 23.6 |
| Lead | 15.7 | 13.6 | 16.2 | 11.4 |
| Nickel | 20.2 | 28.3 | 39.8 | 28.9 |
| Thallium | 0.39J(B) | ND | 0.33J(B) | 0.35J(MB,B) |
| Zinc | 59.3 | 83.5 | 80.4 | 63.9 |
| Total Petroleum Hydrocarbons (mg/Kg) | ND | ND | ND | ND |
| Volatile Organics (µg/Kg) | | | | |
| Benzene | ND | 90 | ND | ND |
| Toluene | ND | 150 | ND | ND |
| Semivolatile Organics (µg/Kg) | | | | |
| 4-Methylphenol | ND | 1,900 | ND | ND |

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

R - Data rejected.

Table 3-2. Summary of Analytical Results for Soil Samples from
Site 1 - Former Fire Training Area
122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana (Continued)

| Samula Na | SB1-6-1 | SB1-6-2 | SB1-6-3 | SB1-6-5 | SB1-6-7 |
|--------------------------------------|-------------|-----------|-----------|-------------|-------------|
| Sample No. | 281-0-1 | 3B1-0-2 | 281-0-3 | 281-0-3 | 281-0-/ |
| Depth (ft. BLS) | 0-1.5 | 10-11.5 | 13.5-15 | 25-26.5 | 35-36.5 |
| Sample Date | 11/91 | 11/91 | 11/91 | 11/91 | 11/91 |
| Matrix | Soil | Soil | Soil | Soil | Soil |
| Parameter | | | | | |
| Metals (mg/Kg) | | | | | |
| Antimony | ND | ND | ND | 3.3 BN | ND . |
| Arsenic | 9.7 | 5.5 | 8.2 | R(N) | 6.7 |
| Beryllium | 0.67J(B) | 0.73J(B) | 0.76J(B) | 0.42J(B) | 0.5J(B) |
| Cadmium | 0.72J(MB,B) | ND | 2.6 | 0.45J(B) | 0.53J(MB,B) |
| Chromium | 20.3 | 17.8 | 26.5 | 16.1 | 17.3 |
| Copper | 20.1J(N*) | 18.8J(N*) | 29.8J(N*) | 28.2 | 29.1J(N*) |
| Lead | 16.9 | 18.2 | 14.5 | 10.9 | 9.7 |
| Nickel | 27 | 21.8 | 94.7 | 29.3 | 33.3 |
| Thallium | 0.31J(B) | 0.28J(B) | 0.4J(B) | 0.26J(MB,B) | 0.37J(B) |
| Zinc | 69 | 70 | 111 | 77.2 | 69.6 |
| Total Petroleum Hydrocarbons (mg/Kg) | ND | ND | ND | 21 | ND |
| Volatile Organics (µg/Kg) | | | | | |
| Methylene Chloride | ND | ND | ND | 56 | ND |
| Semivolatile Organics (µg/Kg) | ND | ND | ND | ND | ND |

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accomp nying data validation qualifier.

R - Data rejected.

Table 3-2. Summary of Analytical Results for Soil Samples from
Site 1 - Former Fire Training Area
122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana (Continued)

| Sample No. | SB1-7-1 | SB1-7-2 | SB1-7-3 |
|--------------------------------------|-------------|-------------|-------------|
| Depth (ft. BLS) | 0-1.5 | 8.5-10 | 15-16.5 |
| Sample Date | 11/91 | 11/91 | 11/91 |
| Sample Date | 11/91 | 11/91 | 11/91 |
| Matrix | Soil | Soil | Soil |
| Parameter | | | |
| Metals (mg/Kg) | <u> </u> | | |
| Arsenic | 8.3J(*) | 9.7J(*) | 3.9J(*) |
| Beryllium | 0.61J(B) | 0.44J(B) | 0.48J(B) |
| Cadmium | 0.68J(MB,B) | 0.79J(MB,B) | 0.79J(MB,B) |
| Chromium | 18.3 | 14.8 | 14.8 |
| Copper | 25.5 | 19.6 | 23.1 |
| Lead | 16.6 | 34.1 | 26.4 |
| Nickel | 28.1 | 22.9 | 23.6 |
| Thallium | 0.3J(MB,B) | 0.26J(MB,B) | ND |
| Zinc | 87.5 | 58.7 | 60 |
| Total Petroleum Hydrocarbons (mg/Kg) | ND | 200 | ND |
| Volatile Organics (µg/Kg) | | | |
| Acetone | 120U(EB) | 160 | 220 |
| Methylene Chloride | 67U(FB) | 76U(FB) | 80U(FB) |
| Toluene | 61 | 140 | 480 |
| Semivolatile Organics (µg/Kg) | | | |
| Acenaphthene | ND | 180(J) | ND |
| Anthracene | ND | 220(J) | ND |
| Benzo(a)anthracene | ND | 740 | ND |
| Benzo(a)pyrene | 160(J) | 540 | ND |
| Benzo(b)fluoranthene | 390(J) | 1,300 | ND |
| Carbazole | ND | 230(J) | ND |
| Chrysene | ND | 730 | ND |
| Dibenzofuran | ND | 71(J) | ND |
| Fluoranthene | 400 | 1,500 | ND |
| Fluorene | ND | 140(J) | ND |
| Indeno(1,2,3-cd)pyrene | ND | 370(J) | ND |
| Phenanthrene | ND | 1,400 | ND |
| Pyrene | 390(J) | 1,700 | ND |

ND - Not Detected (with no accompanying data validation qualifiers); NT- Not Tested

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

R - Data rejected.

Table 3-2. Summary of Analytical Results for Soil Samples from
Site 1 - Former Fire Training Area
122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana (Continued)

| Sample No. | SB1-8-1 | SB1-8-2 | SB1-8-3 | SB1-8-5 |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Depth (ft. BLS) | 0-1.5 | 6.5-8.5 | 11.5-13 | 20-21.5 |
| Sample Date | 11/91 | 11/91 | 11/91 | 11/91 |
| Matrix | Soil | Soil | Soil | Soil |
| Parameter | | | | |
| Metals (mg/Kg) | | | | |
| Arsenic Beryllium Cadmium Chromium Copper Lead Nickel Selenium Thallium Zinc Total Petroleum Hydrocarbons (mg/Kg) | 8.1 0.51J(B) 1.2J(MB) 15.2 17.1J(N*) 33.9 20.4 ND 0.29J(B) 62.5 | 6.4 0.61J(B) 2.9 16 19.7J(N*) 31.3 23.7 ND 0.27J(B) 69.6 | 5.1 0.43J(B) 0.85J(B) 15.9 24.2J(N*) 11 28.1 0.98J(MB,B) 0.52J(B) 71.6 | R(N) 0.6J(B) ND 19.5 42.6 11.4 30.4 ND ND 108* |
| Volatile Organics (µg/Kg) | | | | |
| Acetone Methylene Chloride Toluene | ND ND 26(J) | ND ND 36 | ND ND 190 | 58(J) 36 670 |
| Semivolatile Organics (µg/Kg) Fluoranthene | ND | 100J | ND | ND |

ND - Not Detected (with no accompanying data validation qualifiers); NT- Not Tested

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

R - Data rejected.

Table 3-2. Summary of Analytical Results for Soil Samples from

Site 1 - Former Fire Training Area

122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana (Continued)

| Sample No. | SB1-9-1 | SB1-9-2 | SB1-9-3 |
|--------------------------------------|-------------|-------------|------------|
| Depth (ft. BLS) | 0-1.5 | 5-6.5 | 10-11.5 |
| Sample Date | 11/91 | 11/91 | 11/91 |
| Matrix | Soil | Soil | Soil |
| | 500 | | 501 |
| Parameter | | <u> </u> | |
| Metals (mg/Kg) | | | |
| Arsenic | 12.6 | 4.5 | 5.3J(*) |
| Beryllium | 0.68J(B) | 0.47J(B) | 0.8J(B) |
| Cadmium | 0.44J(MB,B) | 0.74J(MB,B) | 0.5J(MB,B) |
| Chromium | 15.3 | 15.9 | 19 |
| Copper | 34.6J(N*) | 20.7J(N*) | 20.8 |
| Lead | 21.6 | 9 | 11.9 |
| Nickel | 36.5 | 25.5 | 29.9 |
| Thallium | 0.55J(B) | 0.31J(B) | ND |
| Zinc | 116 | 58.3 | 74.5 |
| Total Petroleum Hydrocarbons (mg/Kg) | ND | ND | ND |
| Volatile Organics (ug/Kg) | | | |
| Acetone | ND | 120 | 55(J) |
| Methylene Chloride | ND | 32U(FB) | 31U(FB) |
| Toluene | 250 | 170 | 1,000 |
| Semivolatile Organics (µg/Kg) | | | |
| Benzo(a)pyrene | 660 | ND | ND |
| Benzo(b)fluoranthene | 1,300 | ND | ND ND |
| Fluoranthene | 610 | ND | ND |
| Indeno(1,2,3-cd)pyrene | 500 | ND | ND |
| Pyrene | 620J(RPD) | ND | ND |

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

R - Data rejected.

Table 3-2. Summary of Analytical Results for Soil Samples from
Site 1 - Former Fire Training Area

122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana (Continued)

| Sample No. | SB1-10-1 | SB1-10-2 | SB1-10-3 | SB1-10-4 | SB1-10-5 |
|--------------------------------------|-------------|-------------|-------------|------------|-------------|
| Depth (ft. BLS) | 0-1.5 | 5-6.5 | 10-11.5 | 15-16.5 | 20-21.5 |
| Sample Date | 11/91 | 11/91 | 11/91 | 11/91 | 11/91 |
| Matrix | Soil | Soil | Soil | Soil | Soil |
| Parameter | | | | | |
| Metals (mg/Kg) | | | | | |
| Antimony | 4.9J(N,B) | 5.2J(N,B) | ND | ND | ND |
| Arsenic | 4.8J(*) | 7J(*) | 7J(*) | R(N) | 7.5J(*) |
| Beryllium | ND | 0.27J(B) | 0.47J(B) | 0.45J(B) | 0.48J(B) |
| Cadmium | 0.51J(MB,B) | ND | 0.23J(MB,B) | 0.71J(B) | 1.3J(B) |
| Chromium | 8.4 | 9.5 | 17.9 | 19.3 | 17.1 |
| Copper | 12.9 | 20.6 | 23.2 | 43.7 | 23.1 |
| Lead | 9.3 | 14.4 | 10.7 | 11.8 | 10.7 |
| Nickel | 14.4 | 14.9 | 25.5 | 30.4 | 33.3 |
| Selenium | ND | ND | ND | 0.42J(B) | ND |
| Thallium | ND | 0.26J(MB,B) | ND | 1.1J(MB,B) | 0.38J(MB,B) |
| Zinc | 36 | 55.8 | 62.8 | 95.3J(*) | 61.6 |
| Total Petroleum Hydrocarbons (mg/Kg) | ND | 1,900 | ND | ND | ND |
| Volatile Organics (µg/Kg) | | | | | |
| Acetone | 70 | 190 | 75 | 190 | 130 |
| 1,2-Dichloroethene | ND | ND | 49 | ND | ND |
| Methylene Chloride | ND | 69U(FB) | 60U(FB) | 66 | ND |
| Toluene | 160 | 160 | 99 | 640 | 370 |
| Semvolatile Organics (µg/Kg) | | | | | |
| Benzo(a)pyrene | 300(J) | ND | ND | ND | ND |
| Benzo(b)fluoranthene | 660 | ND | ND | ND | ND |
| Fluoranthene | 710 | ND | 81(J) | ND | ND |
| Pentachlorophenol | ND | 13,000(D) | ND | ND | ND · |
| Pyrene | 700 | ND | 94(J) | ND | ND |

ND - Not Detected (with no accompanying data validation qualifiers); NT- Not Tested

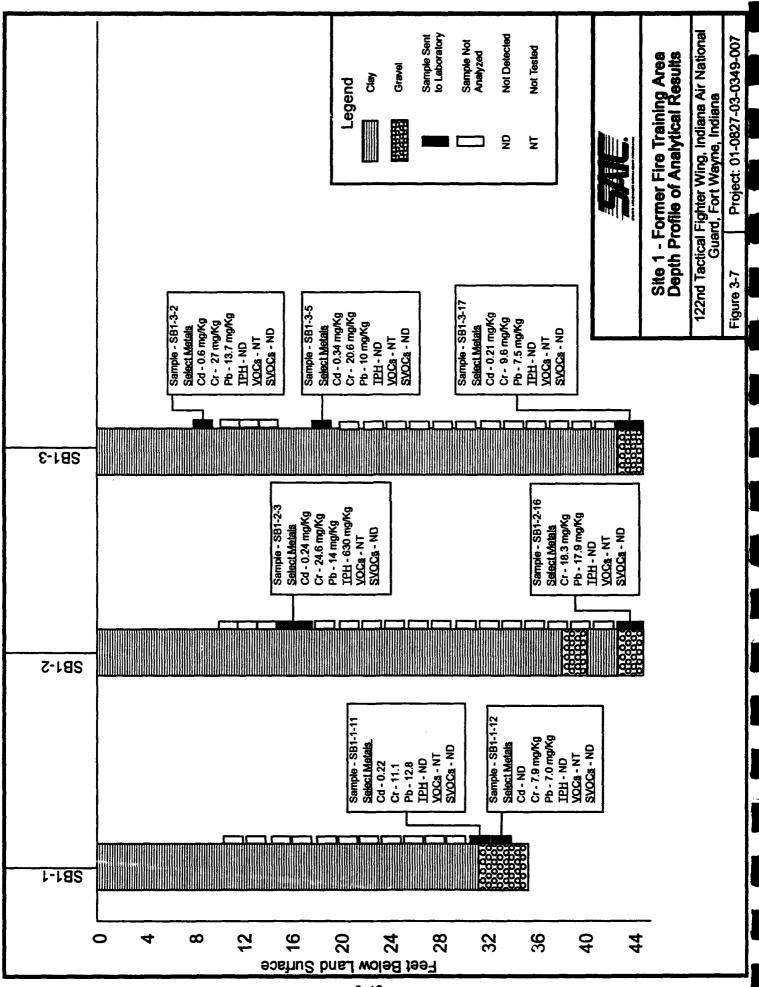
J - Concentration should be considered as an estimate.

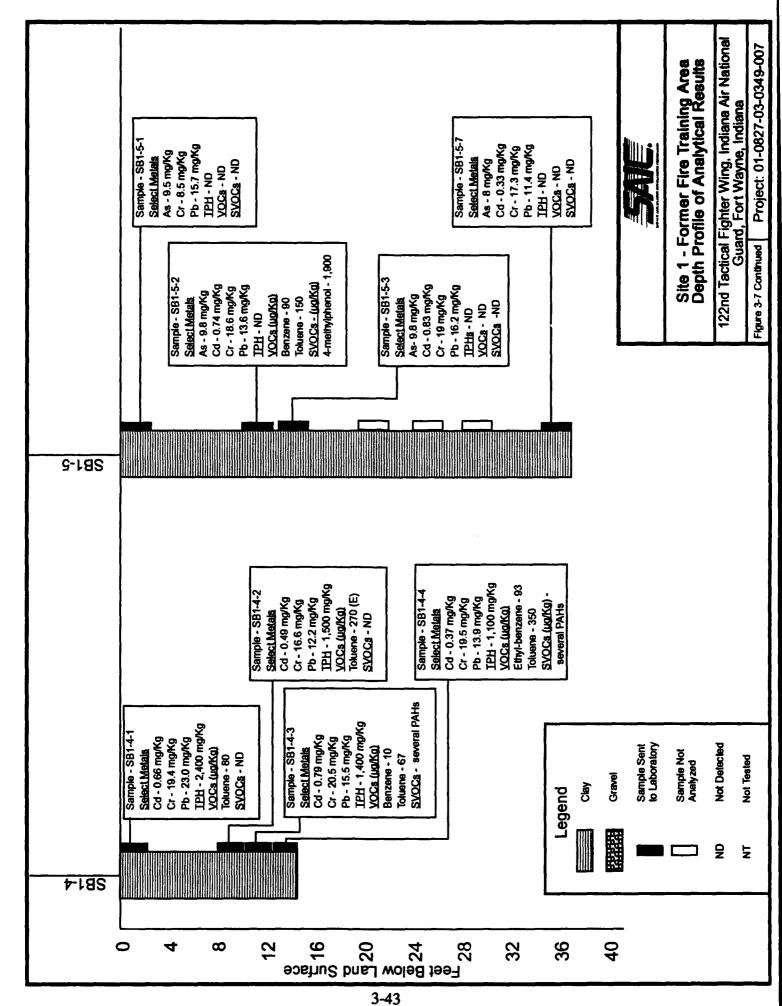
U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

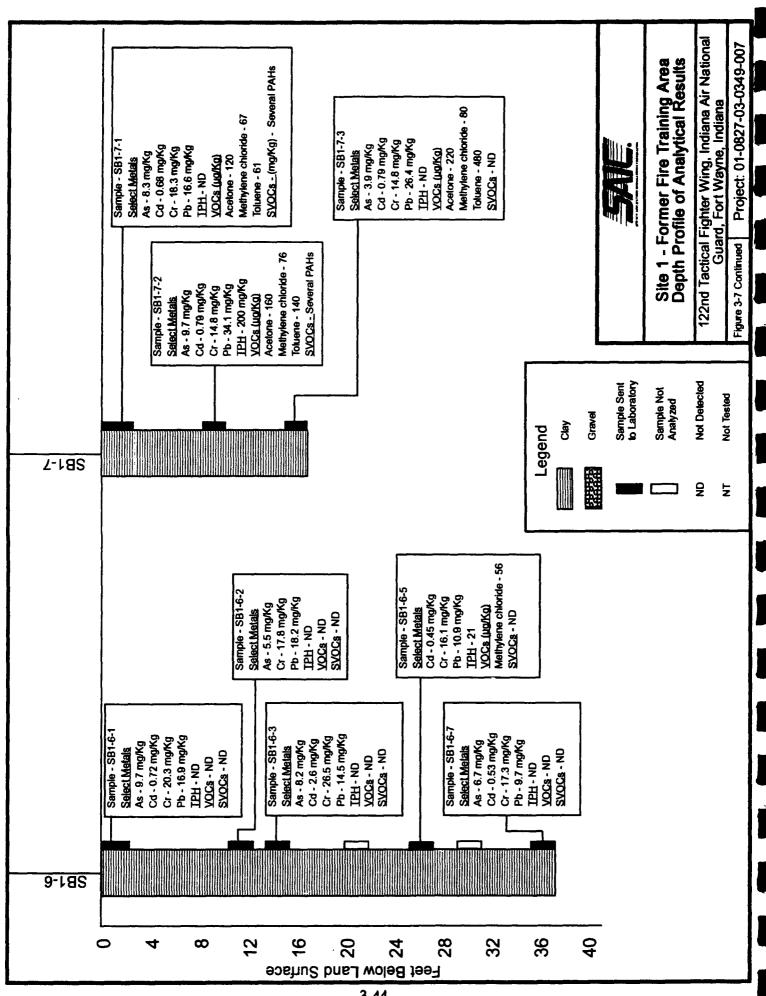
R - Data rejected.

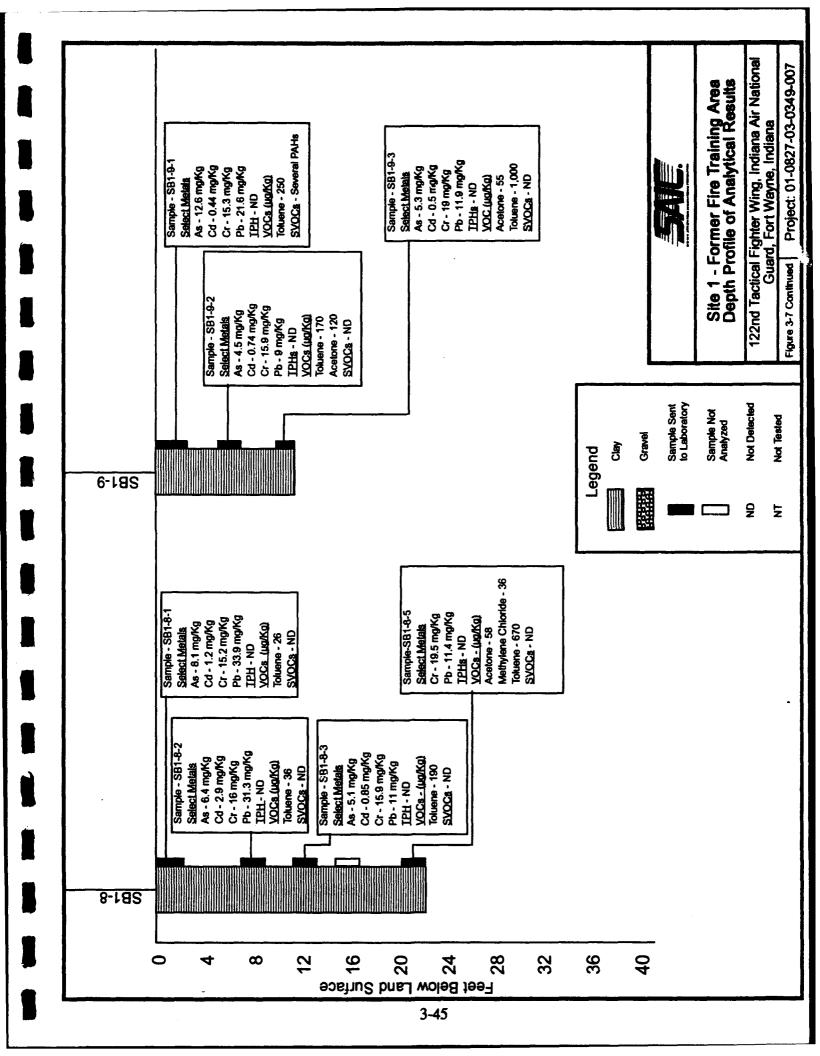
List of Data Validation Qualifiers Applicable to Table 3-2

- J(B)[metals] the reported value is estimated because it is greater than the instrument detection limit (IDL), but less than the contract required detection limit (CRDL).
- J(MB) the reported value is estimated because the element also was detected in the associated laboratory method blank.
- J(FB) [metals] the reported value is estimated because the element also was detected in the associated field blank.
- J(N) [metals] the reported value was estimated because spike recovery is outside the control limits.
- J(*) [metals] the reported value was estimated because duplicate sample analysis is outside the control limits.
- J(IS), UJ(IS) the reported value was estimated because internal standard area is outside the control limits.
- J(SSR) the reported value was estimated because surrogate recovery is outside the required control limits.
- U(EB) the reported value is cosidered as nondetected because the compound also was detected in the associated equipment blank.
- U(FB) the reported value is considered as nondetected because the compound also was detected in the associated field blank.
- R(N) [metals] the reported value was rejected because spike recovery is outside the control limits.









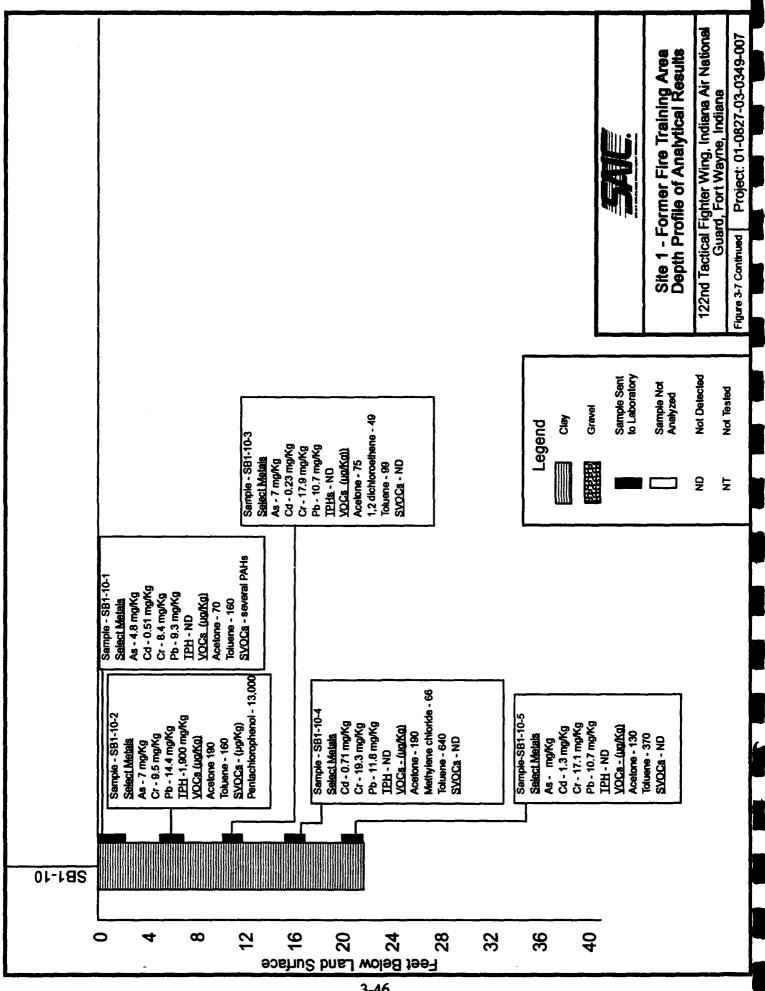


Table 3-3. Summary of Analytical Results for Groundwater Samples from Site 1 - Former Fire Training Area 122nd Tactical Fighter Wing, Indiana Air National Guard Fort Wayne, Indiana

| Sample No. | MW1-1 | MW1-2 | P-8 | MW1-1 | MW1-2 | P-8 |
|-----------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Sample 140. | M 1-1 | NI W 1-2 | Γ-0 | M1 W1-1 | MW 1-2 | r-8 |
| Depth (ft. BLS) | | - | <i>-</i> | | | - |
| Sample Date | 8/90 | 8/90 | 8/90 | 11/91 | 11/91 | 11/91 |
| Matrix | Ground- water | Ground- water | Ground- water | Ground- water | Ground- water | Ground- water |
| Parameter | | | | - | | |
| Metals (mg/L) | | | | | | |
| Antimony | NT | NT | NT | 14.2J(N,B) | ND | 14.6J(N,B) |
| Arsenic | 5.8J(B) | 5.4J(B) | ND | 92.4 | 7.4J(MB,B) | 24.4 |
| Beryllium | ND | ND | ND | 1.8J(B) | 1.11J(MB,B) | 2.21J(B) |
| Cadmium | ND | ND | ND | ND | 1.7J(B) | ND |
| Chromium | ND | ND | ND | 60.9 | 21.2 | 71.8 |
| Copper | 11J(FB,B) | 32J(FB) | 37J(FB) | 79.6 | 30.2J(B) | 75.7 |
| Lead | 4.8J(FB,B) | 14.3J(FB) | 6.9J(FB) | 49 | 15 | 38.1 |
| Nickel | 14J(MB,B) | ND | ND | 74.1 | 30.2J(B) | 84.6 |
| Zinc | 15J(FB,B) | 51J(FB) | 24J(FB) | 221 | 96.4 | 212 |
| Total Petroleum | | | | | | |
| Hydrocarbons(mg/L) | ND | ND | ND | ND | ND | 3U(MB) |
| Volatile Organics (ug/L) | ND | ND | ND | ND | ND | ND |
| Semvolatile Organics (ug/L) | ND | ND | ND | ND | ND | ND |

| Sample No. | GW1-1 |
|------------------------------|---------|
| Depth (ft. BLS) | - |
| Sample Date | 11/91 |
| Matrix | G'water |
| Parameter | |
| Volatile Organics (ug/L) | ND |
| Semivolatile Organics (ug/L) | ND |

ND - Not Detected (with no accompanying data validation qualifiers); NT- Not Tested

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

R - Data rejected.

List of Data Validation Qualifiers Applicable to Table 3-3

- J(B)[metals] the reported value is estimated because it is greater than the instrument detection limit (IDL), but less than the contract required detection limit (CRDL).
- J(MB) the reported value is estimated because the element also was detected in the associated laboratory method blank.
- J(FB) [metals] the reported value is estimated because the element also was detected in the associated field blank.
- J(N) [metals] the reported value was estimated because spike recovery is outside the control limits.
- J(*) [metals] the reported value was estimated because duplicate sample analysis is outside the control limits.
- U(MB) the reported value is cosidered as nondetected because the compound also was detected in the associated method blank.

3.5 SITE 3 - HAZARDOUS WASTE COLLECTION AREA

Site 3 - Hazardous Waste Collection Area (HWCA) is a 50-foot square gravel area enclosed by a wooden fence. The site is used as a temporary storage area for waste oils, solvents, paints, and thinners from various shops at the Base.

Six soil borings were installed at Site 3 to determine if contamination is present in the surface and subsurface soils and whether contamination extends beyond the fenced area that constitutes the storage area. Of the six borings, two were drilled to the water table to determine if contaminants had migrated vertically toward the groundwater aquifer. Of the remaining four borings, three were drilled to a depth of 2 feet BGS and one boring outside the fence was drilled to a maximum depth of 5.5 feet BGS to determine if contaminants were present in the surface soils.

The boring outside the fenced area was drilled to determine if contaminants had migrated offsite in a direction that surface runoff would most likely carry the contamination at the site. This boring was drilled at the only accessible downslope location. Further downslope from this location, underground and overhead utility lines are present, making soil sampling at the site inaccessible. In addition to soil borings, one monitoring well was installed downgradient from the site to determine if site-related contaminants were present in the groundwater.

The following sections present the findings of the SI field investigation conducted at Site 3 - HWCA. A presentation and discussion of the site-specific geology and hydrogeology, laboratory results of soil and groundwater samples collected from the site, and conclusions that were drawn from evaluating the data are included.

3.5.1 Site-specific Geologic and Hydrogeologic Discussions

The geology at Site 3 was altered slightly by the addition of a gravel layer within the fenced area. The engineered gravel layer is located from the surface to approximately 1 to 3 feet BGS and is confined to the fenced area. Except for this feature, the site geology and hydrogeology is similar to the Base characteristics discussed in Section 3.1. The location and depiction of a cross section showing the general geology at Site 3 is shown in Figures 3-8 and

3-9, respectively. Groundwater flow at Site 3 appears to be in a northeasterly direction, which is consistent with the flow direction for the entire Base.

3.5.2 Soil Sampling Results

The evaluation of analytical results for the soil samples collected from the soil borings at Site 3 - HWCA are presented below. The six borings drilled at the site are designated as SB3-1 through SB3-6. The locations of these six borings are shown in Figure 3-10. As evidenced from this figure, boring SB3-6 was drilled outside the fenced area. The analytical results for soil samples collected from Site 3 are shown in Table 3-4; profiles depicting the concentrations of contaminants detected in the soil samples are shown in Figure 3-11.

3.5.2.1 Analytical Results for Soil Samples

The analytical results for the soil samples from Site 3 have been divided into the following two groups to effectively evaluate the data:

- The top 1 to 4 feet of soil comprising the sand and gravel layer.
- From 4 feet BGS to the groundwater table comprising the silty clay layer. Additional information on the site geology is presented in Sections 3.1 and 3.6.1.

As shown in Table 3-4, TPH were detected in samples collected from 0 to 2 feet BGS from boring SB3-1, SB3-3, and SB3-4. TPH were not detected in the surficial sample from boring SB3-2 (SB3-2-1) and sample SB3-1-2 (2 to 4 feet BGS in the sand and gravel layer). These borings were completed during Phase I activities. TPH were detected at a concentration of 1,500 mg/Kg in sample SB3-3-1; 3,000 mg/Kg in sample SB3-4-1; and 5,900 mg/Kg in sample SB3-1-1. SVOCs were not detected in any of the surficial samples from the four porings drilled during Phase I, and only some halogenated organic compounds, such as toluene, acetone, and xylenes, were detected in the same surficial samples.

TPH and oil and grease were detected in the surficial samples collected from 0 to 1.5 feet BGS within the sand and gravel layer from borings SB3-5 and SB3-6 drilled during Phase II. In boring SB3-5, TPH were detected at 7,700 mg/Kg and oil and grease at 7,300 mg/Kg; only

TPH were detected at 98 mg/Kg in SB3-6-1. In the same borings, SVOCs were detected in two samples (SB3-5-1 and SB3-6-1) collected within the sand and gravel layer. These SVOCs consist of bis(2-ethylhexyl)phthalate in sample SB3-5-1 and several PAHs in sample SB3-6-1.

Volatile organic compounds, such as BTEX, acetone, and 2-hexanone, were detected in samples collected within the sand and gravel layer from borings SB3-2, SB3-3, and SB3-4 drilled during Phase I activities. In boring SB3-5, which was drilled during Phase II activities in the immediate vicinity of borings SB3-1 through SB3-4, no VOCs were detected, although TPH concentrations were similar in the samples collected. This indicates that the volatile organic contaminants detected during Phase I may have dissipated to the extent that they were not detected during Phase II. Natural attenuation through biodegradation and volatilization may have contributed to the reduction in volatile organic contamination.

Several metals were detected in soil samples from the sand and gravel layer, including arsenic, cadmium, chromium, lead, and nickel. Except for arsenic in samples SB3-3-1 and SB3-4-1, the concentration of almost all metals in onsite soil samples were within background concentrations. Because land use at the site was previously agricultural, the presence of elevated concentrations of arsenic may be due to past practices using arsenic-based pesticides.

3.5.2.2 Evaluation of Results

The contaminants in the sand and gravel layer comprising the top 4 feet of soil at Site 3 predominantly consist of oil and grease. As mentioned earlier, relatively high concentration of TPH (1,500 to 5,900 mg/Kg) were observed in samples collected during Phase I. However, the concentrations of VOCs and SVOCs in the same samples were not proportionate to the high concentrations of TPH detected in the samples. To reconcile this inconsistency, it was proposed that the TPH fraction may be oil and grease, which was not analyzed during Phase I activities.

Accordingly, samples collected during Phase II activities (SB3-5-1 and SB3-6-1) were analyzed for oil and grease in addition to TPH. The high concentration of oil and grease (7,300 mg/Kg) detected in the onsite soil sample (SB3-5-1) corresponds to the TPH concentration of

7,700 mg/Kg in that sample which confirms that the TPH fraction predominantly consists of oil and grease. The fraction of organic contamination (VOCs and SVOCs) is minimal compared to the oil and grease levels. Volatile organics detected during Phase I sampling were not observed in samples collected during Phase II. Natural attenuation processes, such as volatilization and biodegradation, may be partially responsible for the reduction in VOCs concentration. Volatilization, in particular, could easily occur through the loose sand and gravel layer.

Bis(2-ethylhexyl)phthalate was detected in sample SB3-5-1; however, it does not follow the trend of SVOC contamination observed in other soil samples and may not be significant. The significance of the concentration as it relates to risks to public health and the environment is evaluated in the preliminary risk evaluation conducted for this site.

The soil boring drilled 5 feet west and outside the fenced area (SB3-6) was located in a downslope direction from Site 3. Because of the topography of the area, which includes a gentle westward slope, soil boring SB3-6 is positioned to intercept contaminants that might have migrated offsite through surface runoff. PAHs, TPH, and bis(2-ethylhexyl)phthalate were detected in surface soil at SB3-6. PAHs were not detected in any soil samples collected from within the fenced area. Soil in the vicinity of SB3-6 was excavated in 1988 to install a 36-inch diameter storm drain pipe at approximately 10 feet BGS. Leaks from equipment used for excavation may have contributed to the contamination detected in SB3-6. During installation of the storm drain pipe, soils were excavated and replaced with clean engineered fill. Therefore, any contamination that might have been transported by surface runoff from Site 3 has now been removed. Contamination in the sand and gravel layer at Site 3 most likely has been confined to the fenced area and has not migrated outside the borders of the fenced area. This is consistent with the site history, wherein all storage activities were contained within the fenced area, and therefore, any contamination present would be expected to be detected predominantly within the boundaries of the storage area.

In the deeper silty clay layer (deeper than 5 feet BGS), three samples were collected: one from boring SB3-1 drilled during Phase I and two from boring SB3-5 drilled during Phase II. During Phase I sampling, toluene was detected in the soil sample collected from boring SB3-1

at the groundwater interface; this concentration should be considered as an estimate due to internal standards and surrogate recovery results, as shown in Table 3-4. The presence of toluene at the groundwater interface indicated that contamination may have migrated to the groundwater table. In the deep boring (SB3-5) drilled during Phase II activities to confirm the vertical extent of contamination, soil samples collected at 26 feet BGS and at the water table interface showed no evidence of organic contamination, even though the highest concentration of oil and grease and TPH were detected in the surface sample from this boring. This indicates that contamination has not migrated to the groundwater interface, because toluene, reported during Phase I, was not confirmed in the Phase II investigation.

Based on the analytical results from soil samples collected from the silty clay layer at Site 3, the contaminants are confined from the ground surface to 24.5 feet BGS. However, it appears that contamination resulting from activities at this site are predominantly in the top 4 feet of soil and coincide with the thickness of the sand and gravel layer. The contamination is mainly oil and grease, which tends to adsorb to the soil particles and is not easily transported by infiltering water. In addition, the aquifer at this site is overlain by 30 to 35 feet of dense clays, thus minimizing the potential for vertical migration of contamination. The dense clay layer begins from the end of the sand and gravel layer (i.e., from 5 feet BGS) and is present down to the groundwater table.

3.5.3 (mundwater Sampling Results

One groundwater monitoring well was installed downgradient from Site 3 during Phase I activities. A groundwater sample from this well was collected in August 1990 and analyzed for metals, TPH, VOCs, and SVOCs. The same well was resampled during Phase II and analyzed for the same parameters; in addition, the sample was analyzed for oil and grease. A replicate sample was collected during the Phase II sampling. The analytical results of the groundwater samples collected during Phases I and II are presented in Table 3-5.

Methylene chloride (at 5 μ g/L) was the only organic compound detected in the groundwater sample collected during Phase I at a concentration equal to the detection limit. The detected concentration should be considered as an estimate, and is insignificant because

methylene chloride also was detected in the associated trip blank sample. During the Phase II sampling, methylene chloride was again detected at 5 μ g/L, equal to the detection limit, but it also was detected in the method blank for that sample. Therefore, this concentration is not considered to be significant. Oil and grease were detected in the replicate sample at a low concentration (3 mg/L). Several metals were detected in the groundwater; arsenic, chromium, lead, and nickel were detected during the Phase II sampling, but only arsenic and lead were detected during the Phase I sampling.

As mentioned earlier, the concentrations of metals in site soils are below background levels. The same scenario presented earlier for Site 1 groundwater is applicable for Site 3 groundwater. The metals detected in the groundwater at the site at the detected levels are not considered to be entirely site related. Metals and inorganics detected in groundwater may have resulted from past agricultural practices (such as arsenic-based pesticide use) or the placement of fill material over the site containing metals and inorganics at concentrations great than local parent material. Metals tend to be adsorbed easily to soils and are not easily transported by infiltrating water. Based on site history, organics would more likely be detected in the soils, and in comparison to metals, some halogenated organics would more easily tend to be transported through the soil matrix. No organics were found in the water and only some organics at low concentrations were found in the site soils.

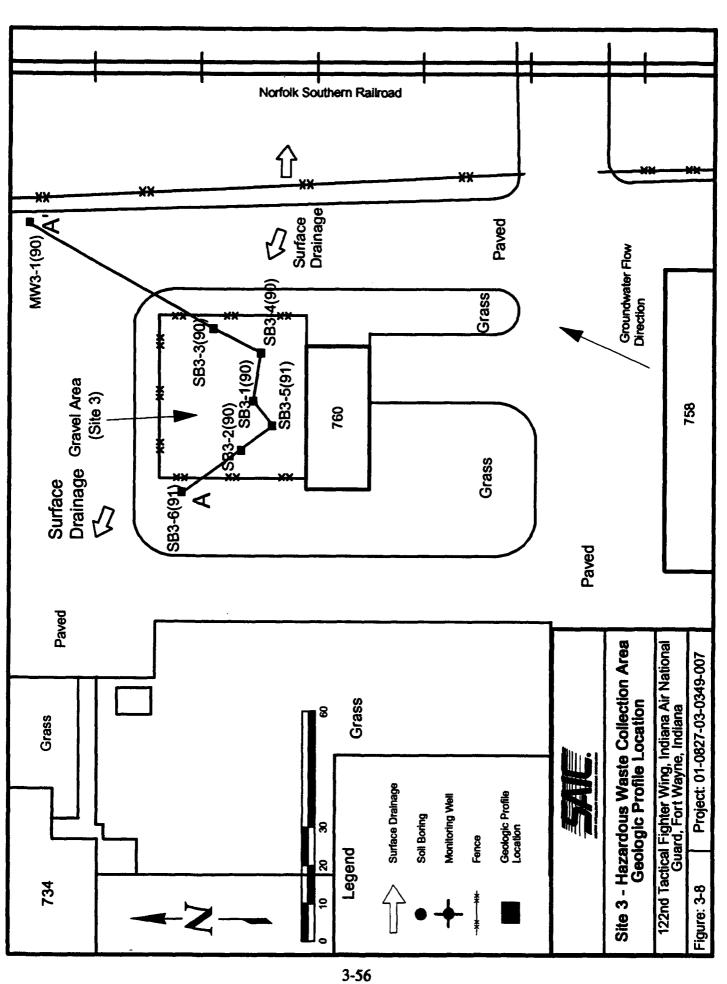
Based on an evaluation of the analytical results and a review of the site geology, the fraction of metals concentration that is due to site-related activities is considered minimal. The significance of the concentrations of metals detected in groundwater will be measured by comparison of the levels against ARARs.

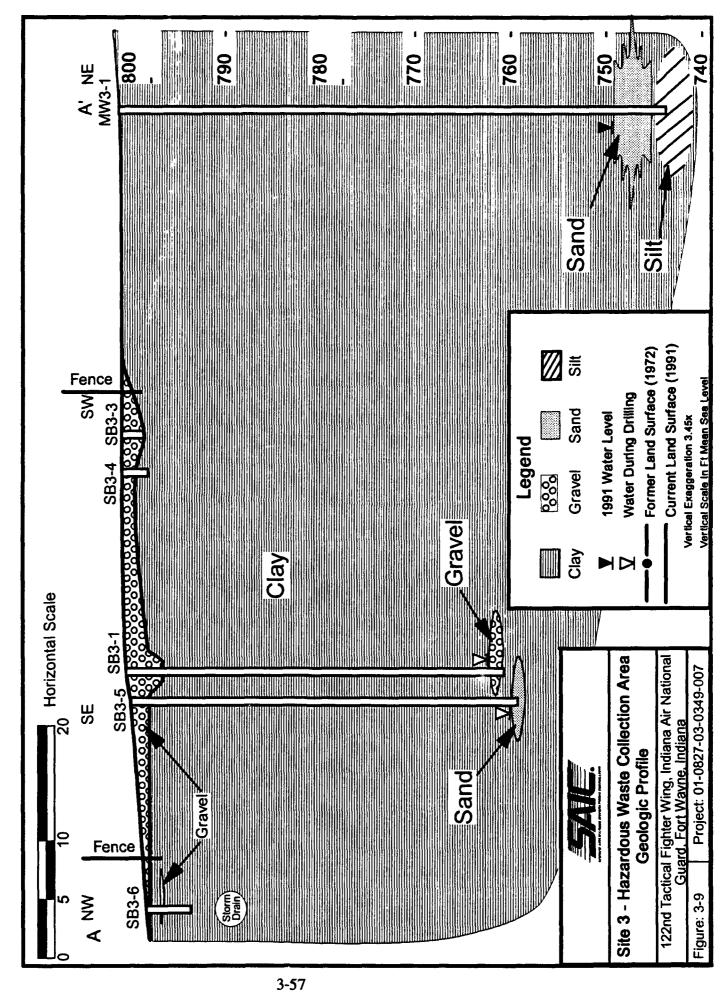
3.5.4 Summary and Extent of Soil and Groundwater Contamination

The following summarizes the nature and extent of contamination in soils and groundwater at Site 3:

• Several metals were detected in soil samples collected from the sand/gravel layer (top 5 feet of soil); except for arsenic detected in two samples, all metals were below background concentrations. Arsenic concentrations may have resulted from past agricultural practices such as the use of arsenic-based pesticides.

- TPH were detected at concentrations ranging from 1,500 to 7,700 mg/Kg in soil samples from the sand and gravel layer. Oil and grease was detected at similar concentrations, indicating that the TPH fraction was composed mainly of oil and grease.
- SVOCs were not detected in any soil samples collected during Phase I sampling. Bis(2-ethylhexyl)phthalate was the only SVOC detected in the sand and gravel layer during the Phase I sampling. However, this concentration is a one-time and one-sample occurrence, does not follow the general trend of SVOC contamination in site soils, and is not considered to be site related. SVOCs observed in offsite soils are not considered to be from contamination at the storage area.
- Some VOCs, were detected in soil samples from the sand and gravel layer during Phase I sampling. These compounds were not detected in samples collected during Phase II. The concentrations of VOCs have been significantly reduced through natural attenuation processes, such as biodegradation and volatilization.
- In the deeper soil samples collected from the silty clay layer, toluene was detected in one sample at the groundwater interface; however, VOC analyses for this sample was impacted due to interference in internal standards and surrogate recoveries. To confirm the presence of contamination at the groundwater interface, another deep boring was drilled during Phase II in the immediate vicinity of the deep boring installed during Phase I. No organics were detected in samples collected 26.5 feet BGS and at the groundwater interface.
- Soil contamination at Site 3 primarily consists of oil and grease. No organic contaminants were detected in soil samples from the sand and gravel layer and metals are present at background concentrations.
- Soil contamination at this site is confined to the fenced area that surrounds the location where drums and other items are stored. The contamination also is predominantly in the top 4 feet of soils, which coincides with the thickness of the sand and gravel layer.
- The overall significance of contamination at the site is minimal. However, the significance of soil contamination will be determined after a preliminary risk evaluation is conducted and impacts to public health and the environment are evaluated.
- No contaminants were detected in the groundwater, which indicates that even after years of storage use, contaminants have not migrated to groundwater. This is consistent with the conclusion made after Phase I that contamination is predominantly in the top 5 feet of soils and the clay layer greatly reduces vertical contaminant migration.





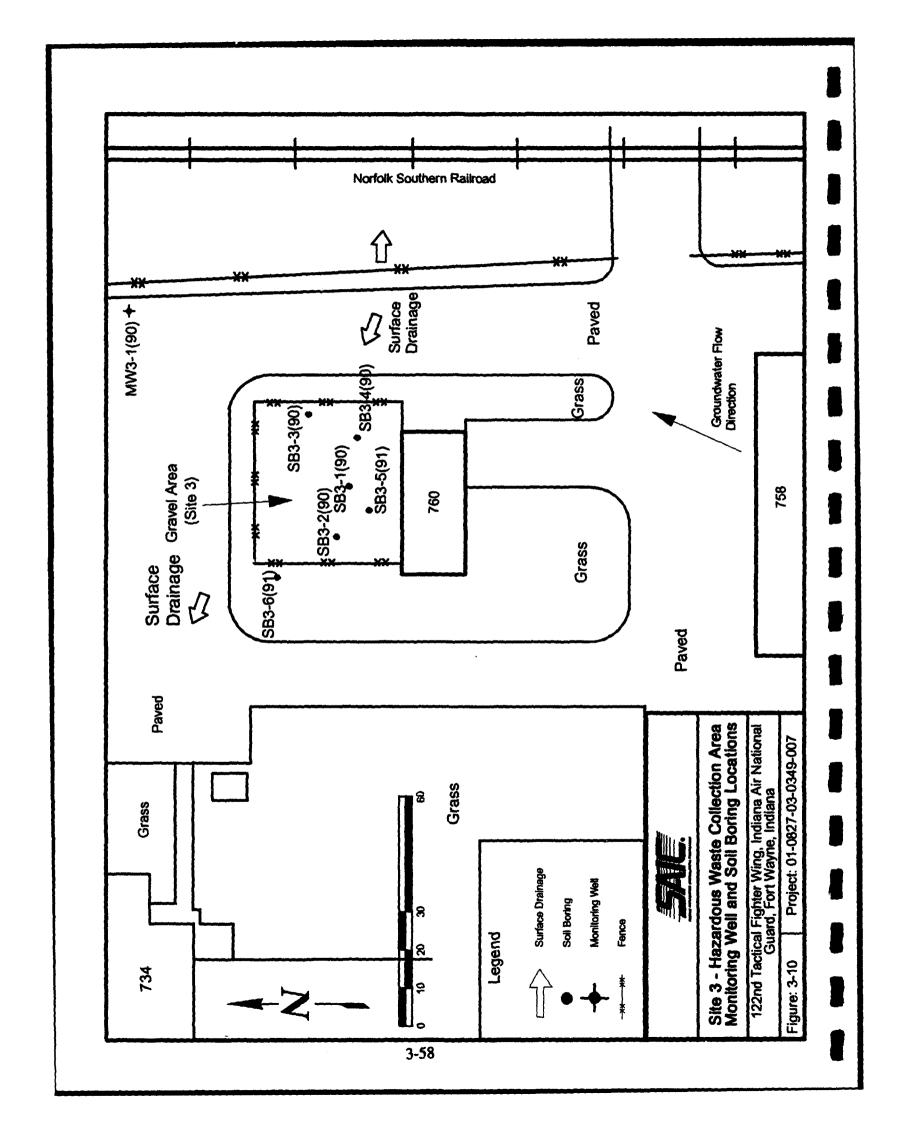


Table 3-4. Summary of Analytical Results for Soil Samples from Site 3 - Hazardous Waste Collection Area 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| | | <u> </u> | | r | i | |
|-------------------------------|------------|----------|-----------------|------------|------------|-------------|
| Sample No. | SB3-1-1 | SB3-1-2 | SB3-1-19 | SB3-2-1 | SB3-3-1 | SB3-4-1 |
| Depth (ft. BLS) | 0-2 | 2-4 | 36-38 | 0-2 | 0-2 | 0-2 |
| Sample Date | 8/90 | 8/90 | 8/90 | 8/90 | 8/90 | 8/90 |
| Matrix | Soil | Soil | Soil | Soil | Soil | Soil |
| Parameter | | | | - | | |
| Metals (mg/Kg) | | NT | | | | |
| Antimony | ND | | ND | ND | ND | ND |
| Arsenic | 1.3J(MB,N) | | 14.3J(N) | 1.7J(N,MB) | 20.7J(N) | 11.5J(N) |
| Beryllium | ND | | 0.73 | ND | 0.98 | 0.91 |
| Cadmium | ND | | 0.31J(MB,B) | ND | 0.65J(MB) | 0.23J(MB,B) |
| Chromium | 2 | | 8.6 | 2.8 | 11.7 | 10 |
| Copper | 19.3 | • | 24.1 | 17.4 | 26.5 | 31.4 |
| Lead | 6.2J(EB) | | 7.6J(EB) | 3.7J(EB) | 16.3 | 15.6 |
| Mercury | 0.02 | | ND | ND | 0.03 | ND |
| Nickel | 1.7J(MB,B) | | 15.6J(MB) | 1.6J(MB,B) | 19.5 | 18.7 |
| Thallium | ND | | 0.3J(B) | ND | 0.37J(B) | 0.58J(B) |
| Zinc | 33.2J(FB) | | 208 | 4.6J(FB) | 66.9J(FB) | 64.5J(FB) |
| Total Petroleum | | | | | | |
| Hydrocarbons (mg/Kg) | 5,900J(HT) | ND | ND | ND | 1,500J(HT) | 3,000J(HT) |
| Volatile Organics (µg/Kg) | | | | | | |
| Methylene Chloride | ND | ND | ND | 14U(FB) | 16U(TB) | 84 |
| Benzene | ND | 6U(FP) | ND | ND | ND | ND |
| Toluene | 38U(FB) | 45U(FB) | 100J(SSR,IS,FR) | ND | 15U(FB) | 91 |
| Ethylbenzene | ND | 16 | ND | ND | ND | ND |
| Xylenes | ND | 190 | ND | ND | ND | 140 |
| 4-methyl-2-pentanone | ND | 34 | ND | ND | ND | ND |
| Acetone | ND | ND | ND | ND | 70 | 820 |
| 2-Hexanone | ND | ND | ND | ND | ND | 1,100 |
| Semivolatile Organics (µg/Kg) | ND | ND | | ND | ND | ND |
| Bis(2-ethylhexyl)phthalate | | | 400J | | <u></u> | |

ND - Not Detected (with no accompanying data validation qualifiers); NT- Not Tested

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

R - Data rejected.

Table 3-4. Summary of Analytical Results for Soil Samples from
Site 3 - Hazardous Waste Collection Area

122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana (Continued)

| Sample No. | SB3-5-1 | SB3-5-6 | SB3-5-9 | SB3-6-1 | SB3-6-2 |
|-------------------------------|-------------|----------|----------|----------|----------|
| Depth (ft. BLS) | 0-1.5 | 24.5-26 | 39.5-40 | 0-1.5 | 4-5.5 |
| Sample Date | 11/91 | 11/91 | 11/91 | 11/91 | 11/91 |
| Matrix | Soil | Soil | Soil | Soil | Soil |
| Parameter | | | | | |
| Metals (mg/Kg) | | | | | |
| Arsenic | 12.8J(N) | 5.1J(N) | 5.9J(N) | 4.8J(N) | 3.9J(N) |
| Beryllium | 0.34J(B) | 0.56J(B) | 0.24J(B) | 0.58J(B) | 0.81J(B) |
| Cadmium | 1.8J(FB) | 2J(FB) | 1.5J(FB) | 2J(FB) | 2.7 |
| Chromium | 9.4 | 18.3 | 6.5 | 15.3 | 23.1 |
| Copper | 26.2 | 23.9 | 18J(FB) | 18.1 | 24.3 |
| Lead | R(N) | R(N) | R(N) | R(N) | R(N) |
| Nickel | 24.1 | 31.9 | 14.7 | 21.9 | 36.4 |
| Selenium | ND | 0.23 | ND | ND | ND |
| Silver | ND | 0.52 | ND | ND | ND |
| Thallium | ND | ND | ND | ND | ND |
| Zinc | 75.7 | 63.1 | 47.3 | 61.4 | 64.2 |
| Total Petroleum Hydrocarbons | | | | | |
| (mg/Kg) | 7,700 | ND | ND | 98 | ND |
| Oil & Grease (mg/Kg) | 7,300 | ND | ND | ND | ND |
| Volatile Organics (µg/Kg) | ND | ND | ND | ND | ND |
| Semivolatile Organics (µg/Kg) | | | | | |
| Benzo(b)fluoranthene | ND | ND | ND | 650 | ND |
| Bis(2-ethylhexyl) | 140 | 1412 | 1412 | 0.50 | , ND |
| phthalate | 2,400 | ND | ND | 240(J) | ND |
| Fluoranthene | 2,400 ND | ND | ND | 660 | ND ND |
| Phenanthrene | ND | ND | ND | 350 | ND |
| Pyrene | ND | ND | ND | 560 | ND |
| 1 71000 | AD | ND | | 350 | עוו |

ND - Not Detected (with no accompanying data validation qualifiers); NT- Not Tested

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

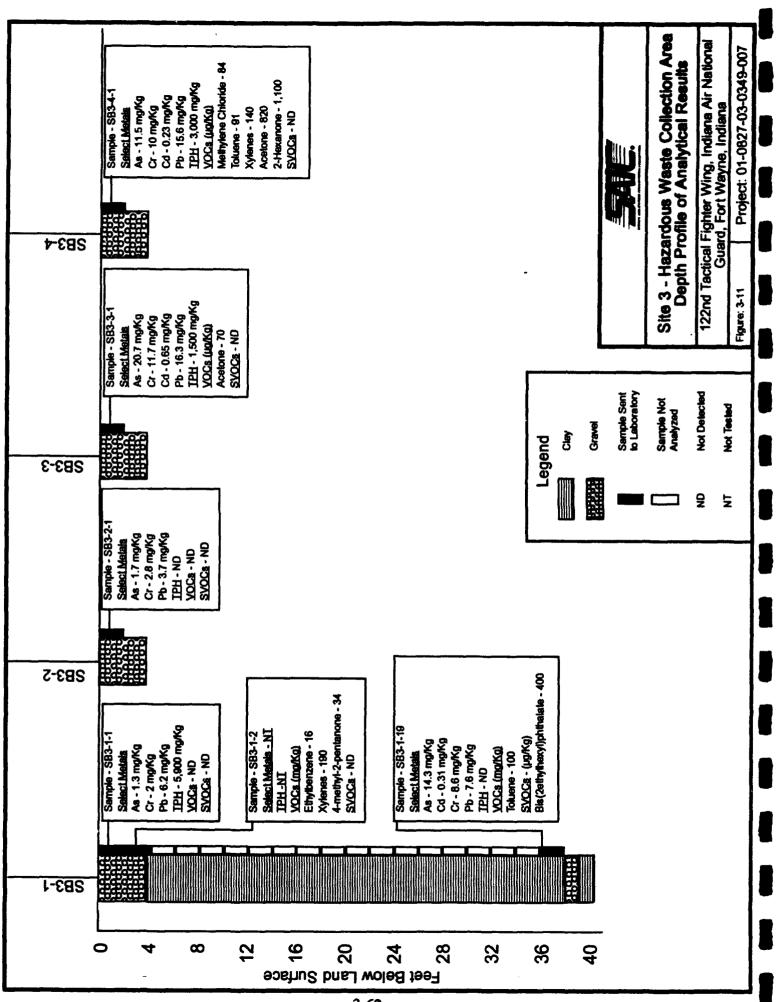
R - Data rejected.

List of Data Validation Qualifiers Applicable to Table 3-4

| J(B)[metals] - | the reported value is estimated because it is greater than the instrument detection limit (IDL), but less than the contract required detection limit (CRDL). |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| J(MB) - | the reported value is estimated because the element also was detected in the associated laboratory method blank. |
| J(FB) [metals] - | the reported value is estimated because the element also was detected in the associated field blank. |
| J(EB) [metals] - | the reported value is estimated because the element also was detected in the associated equipment blank. |
| J(N) [metals] - | the reported value was estimated because spike recovery is outside the control limits. |
| J(*) [metals] - | the reported value was estimated because duplicate sample analysis is outside the control limits. |
| J(HT) - | concentration is estimated because the holding time was exceeded. |
| U(FB) - | the reported value is considered as nondetected because the compound also was detected in the associated field blank. |
| U(TB) - | the reported value is considered as nondetected because the compound also was detected in the associated trip blank. |
| J(IS) - | the reported value was estimated because internal standard area is outside the control limits. |
| J(SSR) - | the reported value was estimated because surrogate recovery is outside the required control limits. |

R(N) [metal] - the reported value was rejected because spike recovery is outside the control

limits.



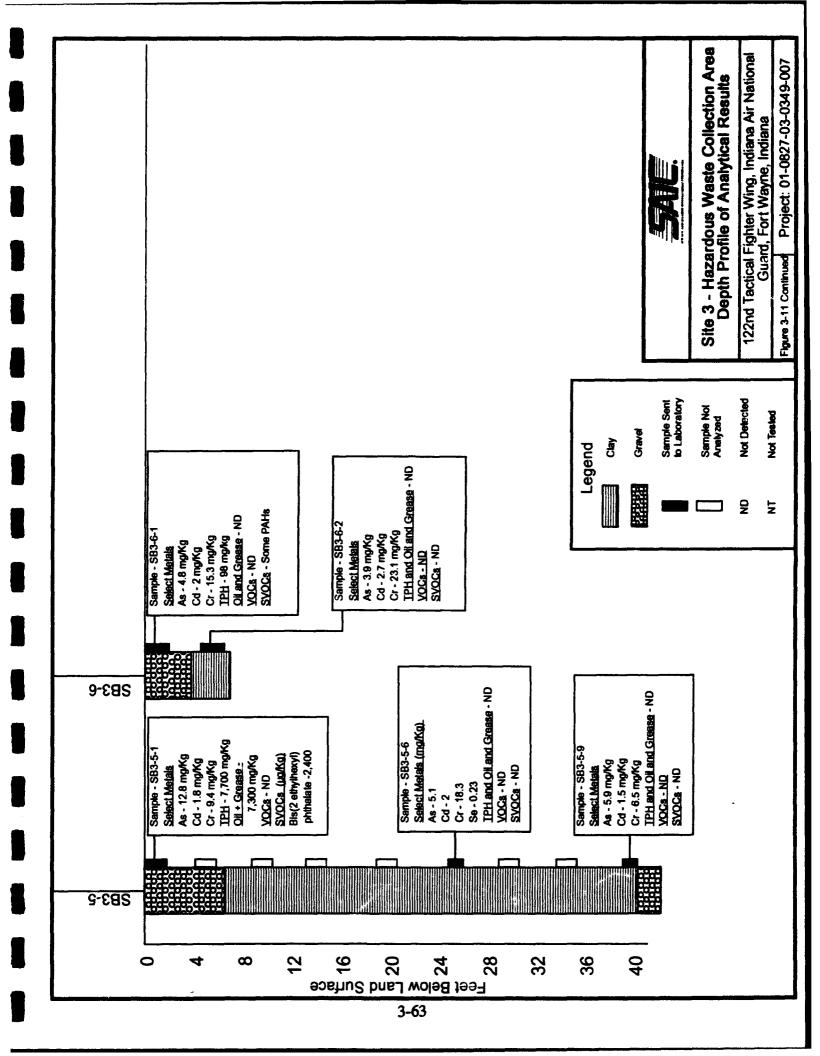


Table 3-5. Summary of Analytical Results for Groundwater Samples for
Site 3 - Hazardous Waste Collection Area

122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne Indiana

| Sample No. | MW2-1 | MW2-1 | MW2-1R |
|----------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------|
| Depth (ft. BLS) | - | _ | |
| Sample Date | 8/90 | 11/91 | 11/91 |
| Matrix | Groundwater | Groundwater | Groundwater |
| Parameter | | | |
| Metals (mg/L) | | | |
| Arsenic Beryllium Chromium Copper Lead Nickel Zinc | 6.3J(B) ND ND 22J(B) 27.9 ND 26J(FB) | 24.8 1.8J(B) 69.1 82.3 43.4 76.8 179 | 23.3 1.5J(B) 60.2 74.9 39 68.4 165 |
| Total Petroleum Hydrocarbons (mg/L) | ND | ND | ND |
| Oil & Grease (mg/L) | NT | ND | 3 |
| Volatile Organics (µg/L) | | | |
| Methylene Chloride | 5U(TB) | ND | 5U(MB) |
| Semivolatile Organics (µg/L) | ND | ND | ND |

ND - Not Detected (with no accompanying data validation qualifiers); NT- Not Tested

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

R - Data rejected.

List of Data Validation Qualifiers Applicable to Table 3-5

- J(B)[metals] the reported value is estimated because it is greater than the instrument detection limit (IDL), but less than the contract required detection limit (CRDL).
- J(FB) [metals] the reported value is estimated because the element also was detected in the associated field blank.
- U(MB) the reported value is considered as nondetected because the compound also was detected in the associated method blank.
- U(TB) the reported value is considered as nondetected because the compound also was detected in the associated trip blank.

3.6 SITE 4 - POL SPILL AREA

Site 4 - POL Spill Area is located in the northern portion of the Base (Figure 1-1). The POL system consisted of an underground storage tank (UST) system, including two USTs and associated pumps and piping. In 1968, a malfunction in the POL system resulted in a spill of 5,000 to 5,300 gallons of JP-4. From the POL facility, the spill ran into the woods and into an open storm drainage ditch. Approximately 200,000 gallons of water were used to flush the spilled JP-4 from the immediate POL area.

The focus of the Phase I and Phase II investigation at Site 4 was to determine the presence of any residual contamination remaining from the 1968 spill. Because any contamination results from a spill from an UST system, the response to the release will follows the guidelines established under 40 CFR Part 280.63; accordingly, information on the size and nature of the release must be assembled. The objective of the site assessment work at Site 4 was to comply with the Indiana Department of Environmental Management (IDEM), Office of Environmental Response (OER) UST regulations for response to a spill. The evaluation of data for Site 4 focused on presenting details of the site assessment work, sampling and analytical methods, and laboratory analytical results to comply with IDEM, OER requirements for UST system spills. This site characterization must be submitted to the IDEM, OER. The initial site characterization should contain the following items, at a minimum:

- 1. Data on the nature and estimated quantity of release.
- 2. Data from available sources or site investigations concerning the following factors:
 - Surrounding population and land use
 - Location and use of all groundwater wells within 1/4 mile
 - Subsurface soil characteristics
 - Location of nearby subsurface sewers
 - Location of surface water and drainage ditches within 1/4 mile
 - Depth to groundwater.
- 3. A short narrative of any sampling/cleanup work conducted at the site, which includes:
 - Results of all site soil and/or groundwater sampling and site assessment work
 - Description of sampling and analytical methods
 - Description of disposal methods for contaminated soil and/or groundwater.

4. Results of an investigation to determine the possible presence of free product and a description of measures taken to begin free product removal if free product is detected.

With respect to Item 1, an estimated 5,000 to 5,300 gallons of JP-4 fuel reportedly spilled from the UST system. Pertinent information required to comply with Item 2 is presented in Section 3.6.5.

The presentation of soil and groundwater sampling results for Site 4 follows the requirements of Item 3. Soil and groundwater sampling has been conducted at the site to determine the presence of residual contamination from the spill. The results and evaluation of the sampling effort is presented in the following sections. The residual contamination at the site is minimal and no cleanup actions are warranted based on available data. The only cleanup work that has been conducted in the past is the flushing that was performed with 200,000 gallons of water immediately after the spill occurred. In addition, the tanks were removed in 1981 and replaced with an aboveground system that complies with all regulations.

With respect to Item 4, no free product is present at the site. Almost all of the spilled JP-4 was flushed away with 200,000 gallons of water. Therefore, no free product investigation was conducted.

At Site 4, a till composed of clays and silts dominates the area from land surface to an approximate depth of 25 feet BGS. Sample SB4-1-4 (14.5 to 16.0 feet BGS), considered representative of Site 4 lithology, was collected for grain size analysis. Data results indicate the composition to be 51 percent clay, 31 percent silt, and 19 percent sand, as shown in Appendix H. The till is probably part of the Lagro Formation, which dominates the area where the Base is located. Tills in this formation are considered to have a low permeability, due to a clay content of 40 to 50 percent (Bleuer and Moore 1978).

3.6.1 Soil Gas Survey Results

A soil gas survey was conducted at Site 4 to help place the soil borings and monitoring wells. Twenty-five soil vapor samples and five water samples (isolated perched water pockets

existed at these sampling locations at the time of sampling) were collected and analyzed. Figure 3-12 presents the locations of the soil gas sampling points. Soil gas sample results are presented in Appendix A. Target compounds include BTEX and TPH, which were chosen because they are indicators of petroleum contamination.

In general, the highest concentrations of organic vapors were detected at stations L15, J15, and H16 in water extracted from 2 to 5 feet BGS and in soil vapor extracted at station J13. These locations correspond to the immediate vicinity of the pump shelter and the oil/water separator system. The results are probably due to current fueling operations within the POL facility and do not appear to represent the area that would have been impacted by the spill pathway. The remaining soil gas sample analyses did not detect the presence of the target compounds or indicated concentrations two to five orders of magnitude lower than those detected at stations L15, J15, J13, and J16. One exception is water sample J23, which is located downslope from the spill. Because organic vapors detected in this location may represent residual spill contaminants, a soil boring was drilled at this location during Phase I.

3.6.2 Soil Sampling Results

Eight soil borings were drilled at the spill site at the locations shown in Figure 3-13. Six of these borings were completed to a depth of 5 feet BGS. One boring (SB4-6) was drilled to 25.5 feet BGS and one boring (SB4-8) was drilled to 16 feet BGS. Soil borings SB4-1 through SB4-5 were drilled during Phase I and borings SB4-6 through SB4-8 were drilled during Phase II activities. Soil samples collected during Phase I were analyzed for metals, TPH, and SVOCs. Samples collected during Phase II at Site 4 were analyzed for TPH (as motor oil and diesel fuel), total lead, and BTEX compounds in accordance with the requirements of IDEM, UST Division. The analytical results for soil samples collected from Site 4 are presented in Table 3-6.

As shown in Table 3-6, TPH were detected in surficial samples (0 to 2 feet BGS) from borings SB4-2, SB4-3, and SB4-5; the deeper sample (3 to 5 feet BGS) from boring SB4-5 also contained TPH at a concentration of 64 mg/Kg. All of these samples were collected during Phase I of the SI. The concentrations of TPH in samples from soil collected during the Phase I activities are greater than the TPH concentrations detected during the Phase II activities, as discussed in the remainder of this section.

During Phase II of the SI, TPH were detected in surficial samples from boring SB4-7 at a concentration of 52 mg/Kg (40 mg/Kg as motor oil and 12 mg/Kg as diesel fuel). TPH were not detected in the deeper sample collected at 4 to 5 feet BGS from the same boring. Boring SB4-7 was drilled immediately next to boring SB4-2 and a comparison of results for TPH analyses indicates that natural attenuation processes may have reduced the concentration of TPH in the site soils observed in the Phase I samples.

Another possible reason for the lower TPH concentration observed during Phase II sampling is the change in analytical method used to measure TPH in the soil samples. Phase I samples were analyzed using Method E 418.1, while samples collected during Phase II were analyzed using Method 8015 (modified). In accordance with IDEM requirements, soil samples from an UST site should be analyzed for TPH using Method 8015. Analytical Method E 418.1 not only measures hydrocarbons related to petroleum hydrocarbons, but also hydrocarbons from all organic matter present in the samples. Therefore, vegetative matter (such as decaying leaves and twigs), which is abundantly present, harmless and easily biodegradable, would be measured using Method E 418.1. Because of this, TPH concentrations measured by Method E 418.1 are relatively higher than those concentrations measured by Method 8015. The latter method specifically measures petroleum hydrocarbons and, as indicated in Table 3-6, can differentiate between the motor oil and the diesel fuel fraction in petroleum hydrocarbons.

In boring SB4-6, drilled at the edge of the spill boundary and near a vehicle parking area, TPH were detected at low concentrations in surficial samples. The sample collected at 4 to 5.5 feet BGS did not show the presence of any TPH, but TPH were detected in the deeper sample collected at 24 to 25.5 feet BGS at a concentration of 248 mg/Kg. The results from the deeper sample are not consistent with what would be expected at a site contaminated with fuel-related products. The surface sample showed TPH contamination, but at 5 feet BGS these TPH were not detected. It seems likely that TPH observed in the deep sample are not site related. This is strengthened by the fact that the clay layer present from 5 feet BGS is sufficiently dense to retard vertical migration of contaminants (hydraulic conductivity of the clay is low: -10-5 to 10-9 cm/sec). TPH contamination in samples collected from boring SB4-8 follows the same scenario. No TPH were detected in the surficial sample and in the sample collected at 4.5 to 6 feet BGS,

yet the deeper sample from 14.5 to 16 feet BGS showed TPH at 43 mg/Kg. However, this concentration is still less than the IDEM guideline of 100 mg/Kg TPH. (Remediation of a site contaminated with fuel products is dictated in a general case by the concentrations of TPH detected in the contaminated media. If TPH are above 100 mg/Kg, remediation could be warranted. However, actual concentrations and the decision to remediate are based on a site-specific basis.)

Some SVOCs, principally PAHs, were detected in samples from borings SB4-1, SB4-2, and SB4-5. All three of these borings are located in close proximity to Building 356, where a large coal storage pile once existed. Burlington Northern used the coal from the storage pile in their rail cars. Therefore, the presence of PAHs in the vicinity of the coal pile would be expected given that PAHs are products of combustion and typically are found in this type of area.

Ethylbenzene, xylenes, styrene and toluene were detected in soil samples from boring SB4-6. The surficial sample (0 to 2 feet BGS) had the highest concentration of BTEX compounds as shown in Table 3-6. The topography of the area at the time of the spill was such that any surface runoff from Building 354 would most likely flow northeast toward the wooded area and beyond into drainage ditches. The presence of BTEX compounds in the surficial sample is most likely from vehicle emissions in the parking area located adjacent to boring SB4-6.

3.6.3 Sediment Sampling Results

The analytical results for sediment samples from Site 4 are shown in Table 3-7. Two sediment samples (SD4-1 and SD4-2) were collected during Phase I from a drainage ditch well beyond the spill site. Runoff from the western portion of the Base, including Buildings 300, 301, 307, and 798, also flow down into the same drainage ditch from where the samples were collected. TPH were detected in both sediment samples collected during Phase I (1,400 mg/Kg in SD4-1 and 880 mg/Kg in SD4-2). No SVOCs were detected in the sediment samples and metals concentrations were within background levels. During Phase II, two additional sediment samples were collected, one in the immediate vicinity of the site (SD4-3) and one further downgradient (SD4-4) where the Phase I sediment samples were collected. The TPH (as motor

oil) concentration in both the samples was 17 mg/Kg. Only acetone was detected among the VOCs in both sediment samples.

The results of the Phase II sampling show that TPH are present at low concentrations (17 mg/Kg) in the immediate vicinity of the site, and further downgradient the concentrations of TPH are well below the TPH guideline of 100 mg/Kg. The high concentration of TPH observed during Phase I in the same drainage area has either dissipated to the low levels observed during Phase II activities, or was from a one-time occurrence in surface runoff from other buildings and areas that flow into the same drainage path. The use of Method 8015 for analysis of TPH for Phase II samples as opposed to E 418.1 for Phase I samples could be another reason for the reduction in TPH concentration.

3.6.4 Groundwater Sampling Results

To determine if contamination from the fuel spill had migrated vertically and impacted the groundwater resource, two monitoring wells and one piezometer installed at the site were sampled and analyzed for appropriate parameters. The locations of the monitoring wells and piezometers at Site 4 are shown in Figure 3-13. Monitoring well MW4-2 and piezometer P-1 are immediately downgradient from the spill site. The results of groundwater analyses are presented in Table 3-8. The sample collected during Phase I was analyzed for metals, TPH, VOC, and SVOCs. The sample collected during Phase II was analyzed for total lead, TPH (as motor oil and diesel fuel), and VOCs.

Monitoring wells MW4-1 and MW4-2 and piezometer P-1 were sampled during Phase II. During Phase I activities, MW4-1 could not be sampled because the water level in the well was not recovering sufficiently for samples to be collected. Several attempts were made before a decision was made to abandon sampling of the well. Therefore, piezometer P-2, located approximately 130 feet downgradient from MW4-1, was sampled instead.

As Table 3-8 shows, no contaminants were detected in groundwater samples. In the samples collected during Phase I, no TPH, VOCs, or SVOCs were detected in groundwater; some metals were detected, but they are not considered to be significant because they are below

the maximum contaminant level (MCL) for the respective metals. Samples collected during Phase II did not show any BTEX compounds, and only TPH (as diesel fuel) at 0.52 mg/L was detected in the sample from piezometer P-1.

Lead was detected at 229 μ g/L in sample MW4-1 collected during Phase II, but was detected at only 10.2 μ g/L in sample MW4-2. Although not directly upgradient from the spill site, MW4-1 is located laterally northwest of the site. The groundwater flow direction at the site is in a northeasterly direction. Although some impacts of the spill could be expected in MW4-1, they would be less than the impacts detected in the downgradient wells. The conclusion that lead detected in well MW4-1 is from a source not related to the spill at Site 4 is based on the following:

- Wells MW4-2 and P-1 are located directly downgradient and downslope from the Site 4 spill and are better positioned to detect the site-related groundwater contaminants than MW4-1 (which is nearly upgradient of the spill). However, lead was detected at only $10.2 \mu g/L$ in MW4-2 and not detected in P-1.
- Other sources for lead contamination in groundwater from MW4-1 may include runoff from the adjacent asphalt-paved road, exhaust from vehicle or aircraft traffic, or a small unreported fuel spill on the road.

The concentration in monitoring well MW4-2 is consistent with the levels observed in other groundwater samples collected during Phases I and II. The results of the groundwater analyses clearly show that groundwater has not been impacted; this evaluation and conclusion is also consistent with what has been observed in the site soils (Section 3.6).

3.6.5 Pertinent Information Required for UST System Release Response

The following summarizes pertinent information required to be assembled for site characterization in response to a leak from an UST system, as mandated under 40 CFR Part 280.63:

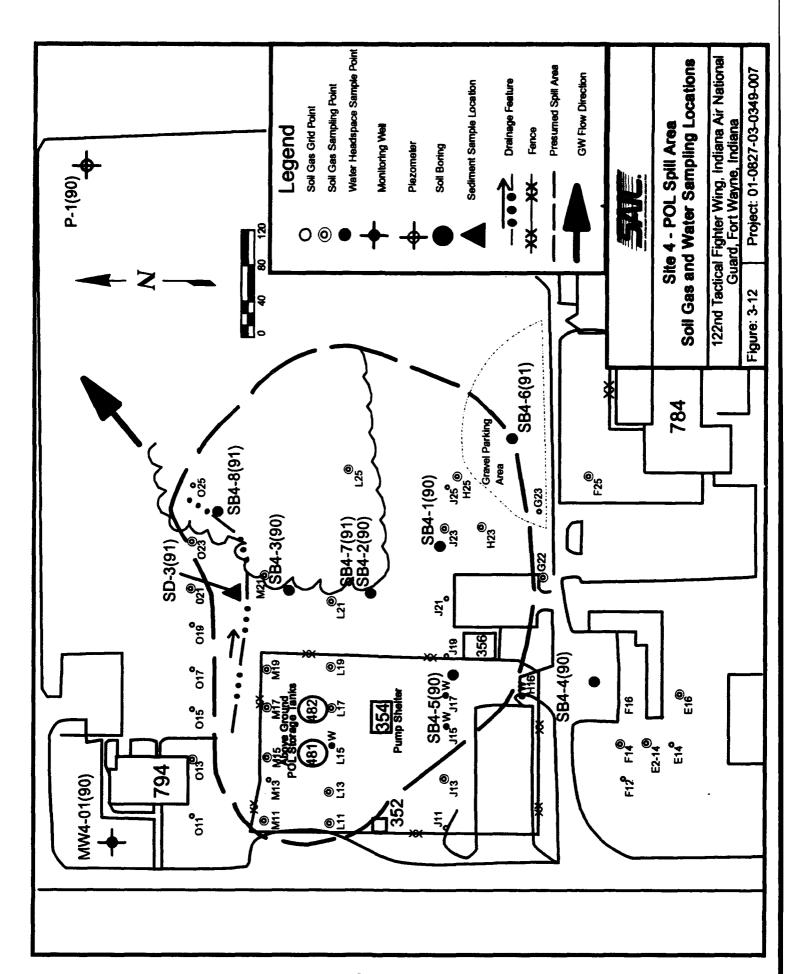
Surrounding population and land use: No permanent residence is located within 1,400 feet of the site. South of the Base, the land use is mostly agricultural; north and east of the Base the use is predominantly commercial. The Fort Wayne Municipal Airport is located immediately west of the Base. Therefore, within a 1-mile radius of the Base, land use is mostly commercial and agricultural.

- Locations and use of all groundwater wells within 1/4 mile: No groundwater wells are located within 1/4 mile of any of the sites. The nearest well from Site 4 is 3,500 feet from the site (HMTC 1988).
- Subsurface soil characteristics: From land surface to approximately 30 feet BGS, the soils are mostly clay; typically, the soils are composed of 50 percent clay, 30 percent silt, and 20 percent fine sands. Few small sand and gravel lenses are present near the water table. The estimated permeability of the soils at this site is 1.4 x 10⁴ to 5.6 x 10⁴ cm/sec.
- Locations of nearby subsurface sewers: A storm drain is located approximately 200 feet south of Site 4.
- Locations of surface water and drainage ditches within 1/4 mile: No surface water resource is located within ¼-mile of the site. The nearest surface water body is Harber Ditch, located approximately 2,000 to 5,000 feet east of the Base from Site 4.
- Depth to groundwater: Groundwater is 45 to 50 feet BGS at Site 4.

3.6.6 Summary and Extent of Contamination

The analytical results of soil samples collected from Site 4 show that minimal residual contamination remains from the 1968 spill. Some areas of contamination exist that could be attributed to other sources, such as the former coal pile, the oil/water separator, and the vehicle parking area located close to boring SB4-6. In other areas, the concentration of TPH were found to be less than 100 mg/kg (the guideline that is typically used by the IDEM to justify cleanup actions). Actual concentration of TPH and the decision to remediate are, however, typically based on a site-specific basis. Sediment samples collected from drainage pathways in the immediate vicinity of the site and further downgradient showed that concentration of TPH are below 100 mg/kg. Groundwater samples collected from the site showed that there are no site-related contaminants present in the groundwater; this is also consistent with what has been observed in the site soils. In general, TPH concentration in samples collected during Phase II activities were found to be lower than those collected during Phase I activities. One reason for this discrepancy may be the different method used to detect TPH. During Phase I activities, Method E418.1 was used while Method 8015 was used to detect TPH during Phase II activities. As explained earlier, Method E418.1 measures all hydrocarbons from all organic matter present in the samples. The hydrocarbons related to petroleum products constitute a portion of the total hydrocarbons. Therefore, TPH results from Method E418.1 tend to be slightly higher than that measured by Method 8015 which detects only those hydrocarbons that constitute the fraction related to petroleum products. The overall significance of the detected contamination at this site can be considered minimal for the following reasons:

- The aquifer at this site, as at other sites, is overlain by 30 to 35 feet of dense clays, minimizing the potential for vertical migration of contaminants.
- Access to the site is limited; therefore, exposure for the general public to any surficial contaminants would be minimal. Base personnel working in the area follow appropriate procedures required for conducting operations at a fuel storage site. These procedures also would prevent exposure to site surface soils.
- Based on available information, the contamination at this site is the result of a spill that occurred in 1968. Remedial actions that were implemented at that time consisted of flushing the spill with 200,000 gallons of water. Since that spill, the former UST system has been replaced by an aboveground system designed in accordance with regulatory requirements.



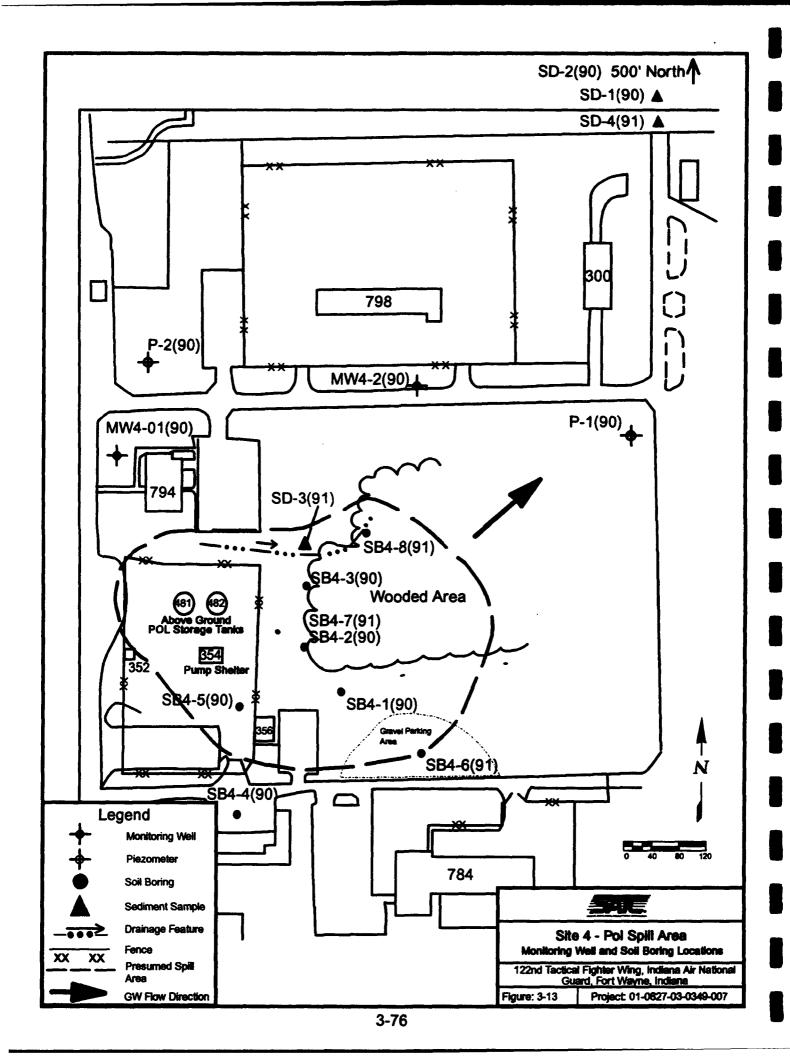


Table 3-6. Summary of Analytical Results for Soil Samples from Site 4 - POL Spill Area

122nd Tactical Fighter Wing, Indiana Air National Guard Fort Wayne, Indiana

| | | ana a - | | 274.6 | 2D4.0 |
|-------------------------------------------------------------------|-------------|-------------------|-------------|-------------|-------------|
| Sample No. | SB4-1-1 | SB4-1-2 | SB4-2-1 | SB4-2-2 | SB4-3-1 |
| Depth (ft. BLS) | 0-2 | 3-5 | 0-2 | 3-5 | 0-2 |
| Sample Date | 8/90 | 8/90 | 8/90 | 8/90 | 8/90 |
| Matrix | Soil | Soil | Soil | Soil | Soil |
| Parameter | | | | | |
| Metals (mg/Kg) | | - | · | | |
| Arsenic | 8.4J(N) | 11.1 J(N) | 10.9J(N) | 9.8J(N) | 9.7J(N) |
| Beryllium | 1.2 | 2.1 | 1.7 | 1.9 | 1.9 |
| Cadmium | 0.36J(MB,B) | ND | 0.36J(MB,B) | 0.24J(MB,B) | 0.45J(MB,B) |
| Chromium | 7.7 | 29.6 | 21.6 | 22.3 | 25.3 |
| Copper | 54.8 | 22.6 | 28.8 | 29.6 | 16.7 |
| Lead | 14.1 | 9.4 | 11.7 | 10.5 | 13.6 |
| Mercury | 0.04 | 0.03 | 0.09 | 0.03 | 0.04 |
| Nickel | 11.2J(MB) | 21.3 | 23.4 | 32.3 | 24.9 |
| Selenium | 0.39J(B) | 0.33J(B) | ND | ND | 0.38(B) |
| Thallium | 0.49J(B) | 0.47J(B) | 0.28J(B) | ND | ND |
| Zinc | 22.0J(FB) | 66.7J(FB) | 66.0J(FB) | 66.8J(FB) | 77.1J(FB) |
| Total Petroleum Hydrocarbons (mg/Kg. <u>Using Method E418.1</u>) | ND | ND | 1,500J(HT) | ND | 520J(HT) |
| Volatile Organics (µg/Kg) | NT | NT | NT | NT | NT |
| Semivolatile Organics (µg/Kg) | | ND | | | ND |
| Naphthalene | 290(J) | ND | ND | ND | ND |
| 2-methylnaphthalene | 360(J) | ND | ND | ND | ND |
| Benzo(a)anthracene | ND | ND | ND | 380(J) | ND |
| Benzo(a)pyrene | 240(J) | ND | 280(J) | 590 | ND |
| Benzo(b)fluoranthene | 370(J) | ND | 280(J) | 520 | ND |
| Benzo(k)fluoranthene | 350(J) | ND | 360(J) | 830 | ND |
| Benzo(g,h,i)perylene | ND | ND | 230(J) | 540 | ND |
| Chrysene | 380(J) | ND | ND | 400 | ND |
| Fluoranthene | 660 | ND | ND | 520 | ND |
| Indeno(1,2,3-cd)pyrene | ND | ND | ND | 410 | ND |
| Phenanthrene | 720 | ND | ND | 300(J) | ND |
| Pyrene | 600 | ND | ND | 480 | ND |
| | | | <u> </u> | | |

ND - Not Detected (with no accompanying data validation qualifiers); NT- Not Tested

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

R - Data rejected.

Table 3-6. Summary of Analytical Results for Soil Samples from Site 4 - POL Spill Area

122nd Tactical Fighter Wing, Indiana Air National Guard Fort Wayne, Indiana (Continued)

| Sample No. | SB4-3-2 | SB4-4-1 | SB4-4-2 | SB4-5-1 | SB4-5-2 |
|-----------------------------------------------------------|----------|-------------|-----------|-----------------|-------------|
| Depth (ft. BLS) | 3-5 | 0-2 | 3-5 | 0-2 | 3-5 |
| Sample Date | 8/90 | 8/90 | 8/90 | 8/90 | 8/90 |
| Matrix | Soil | Soil | Soil | Soil | Soil |
| Parameter | | | | | |
| Metals (mg/Kg) | | | | | |
| Arsenic | 11.4J(N) | 10.8J(N) | 8.2J(N) | 2.8J(N) | 7.0J(N) |
| Beryllium | 1.9 | 1.1 | 1.4 | 0.25J(B) | 1.6 |
| Cadmium | ND | 0.21J(MB,B) | 0.49J(MB) | ND | 0.28J(MB,B) |
| Chromium | 28.3 | 13.1 | 16.9 | 5.4 | 21.2 |
| Copper | 28 | 16.9 | 31.3 | 16.1 | 27.4 |
| Lead | 14.5 | 25.6 | 10.4 | 11 | 10.8 |
| Mercury | 0.04 | 0.02 | ND | 0.03 | ND |
| Nickel | 36.9 | 14.5J(MB) | 31.5 | 9.2J(MB) | 28.6 |
| Selenium | ND | 0.45J(B) | 0.52J(B) | 0.36J(B) | ND |
| Thallium | 0.38J(B) | ND | ND | ND | ND |
| Zinc | 87J(FB) | 51.2J(FB) | 66.7J(FB) | 13.8J(FB) | 55.3J(FB) |
| Total Petroleum Hydrocarbons(mg/Kg, Using Method E418.1) | ND | ND | ND | 180J(HT) | 64J(HT) |
| Volatile Organics (µg/Kg) | NT | NT | NT | NT | NT |
| Semivolatile Organics (µg/Kg) | ND | ND | ND | | ND |
| Naphthalene Dibenzofuran | | | | 1,800 280(J) | |

ND - Not Detected (with no accompanying data validation qualifiers); NT- Not Tested

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

R - Data rejected.

Table 3-6. Summary of Analytical Results for Soil Samples from Site 4 - POL Spill Area

122nd Tactical Fighter Wing, Indiana Air National Guard Fort Wayne, Indiana (Continued)

| Sample No. | SB4-6-1 | SB4-6-2 | SB4-6-6 | SB4-7-1 | SB4-7-2 |
|------------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Depth (ft. BLS) | 0-2 | 4-5.5 | 24-25.5 | 0-2 | 4-5 |
| Sample Date | 11/91 | 11/91 | 11/91 | 11/91 | 11/91 |
| Matrix | Soil | Soil | Soil | Soil | Soil |
| Parameter | | | | | |
| Metals (mg/Kg) | | | | | |
| Arsenic Lead | 3.6J(N) R(N) | 7.1J(N) R(N) | 4.6J(N) R(N) | 6.5J(N) R(N) | 6.3J(N) R(N) |
| Total Petroleum Hydrocarbons (mg/Kg. Using Method 8015) | 15.9 | ND | 248 | 52 | ND |
| | 11 | ND | 150 | 40 | ND |
| As Motor Oil As Diesel | 4.9 | ND | 98 | 12 | ND |
| Volatile Organics (µg/Kg) | | | | | |
| Ethylbenzene | 210 | ND | ND | ND | ND |
| m-p-xylenes | 110 | ND | ND | ND | ND |
| Styrene | 84 | ND | ND | ND | ND |
| Toluene | ND | 0.7 | 1.6 | ND | 3.5 |
| Semivolatile Organics (µg/Kg) | NT | NŢ | NT | NT | NT |

ND - Not Detected (with no accompanying data validation qualifiers); NT- Not Tested

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

R - Data rejected.

Table 3-6. Summary of Analytical Results for Soil Samples from Site 4 - POL Spill Area

122nd Tactical Fighter Wing, Indiana Air National Guard Fort Wayne, Indiana (Continued)

| Sample No. | SB4-8-1 | SB4-8-2 | SB4-8-4 |
|------------------------------------------------------------|----------|----------|----------|
| Depth (ft. BLS) | 0-1.5 | 4.5-6 | 14.5-16 |
| Sample Date | 11/91 | 11/91 | 11/91 |
| Matrix | Soil | Soil | Soil |
| Parameter | | | |
| Metals (mg/Kg) | | | |
| Lead | 19.3J(*) | 11.7J(*) | 10.1J(*) |
| Total Petroleum Hydrocarbons (mg/Kg, Using Method 8015) | ND | ND | 43 |
| | ND | ND | 27 |
| As Motor Oil As Diesel | ND | ND | 16 |
| Volatile Organics (µg/Kg) | | | |
| Toluene | ND | 0.98 | ND |
| Semivolatile Organics (µg/Kg) | NT | NT | NT |

ND - Not Detected (with no accompanying data validation qualifiers); NT- Not Tested

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

R - Data rejected.

List of Data Validation Qualifiers Applicable to Table 3-6

- J(B)[metals] the reported value is estimated because it is greater than the instrument detection limit (IDL), but less than the contract required detection limit (CRDL).
- J(MB) the reported value is estimated because the element also was detected in the associated laboratory method blank.
- J(FB) [metals] the reported value is estimated because the element also was detected in the associated field blank.
- J(EB) [metals] the reported value is estimated because the element also was detected in the associated equipment blank.
- J(N) [metals] the reported value was estimated because spike recovery is outside the control limits.
- J(*) [metals] the reported value was estimated because duplicate sample analysis is outside the control limits.
- J(HT) concentration is estimated because the holding time was exceeded.
- R(N) [metal] the reported value was rejected because spike recovery is outside the control limits.

Table 3-7. Summary of Analytical Results for Sediment Samples from
Site 4 - POL Spill Area

122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| Sample No. | SD4-1 | SD4-2 | SD4-3 | SD4-4 |
|-------------------------------|-------------|-------------|-----------|-----------|
| Depth (ft. BLS) | Surficial | Surficial | Surficial | Surficial |
| Sample Date | 8/90 | 8/90 | 11/91 | 11/91 |
| Matrix | Sediment | Sediment | Sediment | Sediment |
| Parameter | | | | |
| Metals (mg/Kg) | | | | |
| Arsenic | 11.0J(N) | 9.6J(N) | | |
| Beryllium | 1.7 | 2.0 | | |
| Cadmium | 0.22J(MB,B) | 0.35J(MB,B) | | |
| Chromium | 20.9 | 19.3 | | |
| Copper | 31.1 | 28.1 | | |
| Lead | 13.8 | 20.4 | 39.3J(*) | 7.4J(*) |
| Mercury | ND | 0.04 | | |
| Nickel | 33.7 | 26.1 | | |
| Thallium | 0.27J(B) | 0.3J(B) | |) |
| Zinc | 73.9 | 71.3 | | |
| Total Petroleum Hydrocarbons | | | | - |
| (mg/Kg)* | 1,400J(HT) | 880J(HT) | 17 | 17 |
| As Motor Oil | | | 17 | 17 |
| As Diesel | | | ND | ND |
| Volatile Organics (µg/Kg) | NT | NT | | |
| Acetone | | ! | 290 | 280 |
| Semivolatile Organics (µg/Kg) | ND | ND | NT | NT |

ND - Not Detected (with no accompanying data validation qualifiers); NT- Not Tested

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

R - Data rejected.

^{* -} TPH were detected using Method E418.1 for samples SD4-1 and SD4-2, and Method 8015 for samples SD4-3 and SD4-4

List of Data Validation Qualifiers Applicable to Table 3-7

- J(B)[metals] the reported value is estimated because it is greater than the instrument detection limit (IDL), but less than the contract required detection limit (CRDL).
- J(MB) the reported value is estimated because the element also was detected in the associated laboratory method blank.
- J(N) [metals] the reported value was estimated because spike recovery is outside the control limits.
- J(*) [metals] the reported value was estimated because duplicate sample analysis is outside the control limits.
- J(HT) concentration is estimated because the holding time was exceeded.

Table 3-8. Summary of Analytical Results for Groundwater Samples from
Site 4 - POL Spill Area
122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne Indiana

| Sample No. | P-2 | MW4-2 | MW4-1 | MW4-2 | P-1 |
|------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------|--------------------|---------------------|--------------------------------------|
| Depth (ft. BLS) | | | | - | ••• |
| Sample Date | 8/90 | 8/90 | 11/91 | 11/91 | 11/91 |
| Matrix | Groundwater | Groundwater | Groundwater | Groundwater | Groundwater |
| Parameter | | | | | |
| Metals (mg/L) | | | | | |
| Arsenic Copper Lead Nickel Zinc Total Petroleum Hydrocarbons (mg/L) As Motor Oil | 3J(B) 43 10.5J(EB) 32J(MB,B) 25J(FB) ND | 3.3J(MB,B) 27 29.4J(EB) 16J(MB,B) 32J(FB) ND | NT NT 229 NT NT ND | NT NT 10.2 NT NT NT | NT NT 10.6 NT NT 0.52 |
| As Diesel | | | ND | ND | 0.52 |
| Volatile Organics (µg/L) | | _ | ND | ND | ND |
| Methylene Chloride | 5U(TB) | 5U(TB) | | | |
| Semivolatile Organics (μg/L) | ND | ND | NT | NT | NT |

ND - Not Detected (with no accompanying data validation qualifiers); NT- Not Tested

J - Concentration should be considered as an estimate.

U - Compound/element was not detected, but is presented with accompanying data validation qualifier.

R - Data rejected.

^{* -} TPH were detected using Method E 418.1 for samples collected in 8/90, and Method 8015 for samples collected in 11/91

List of Data Validation Qualifiers Applicable to Table 3-8

- J(B)[metals] the reported value is estimated because it is greater than the instrument detection limit (IDL), but less than the contract required detection limit (CRDL).
- J(MB) the reported value is estimated because the element also was detected in the associated laboratory method blank.
- J(FB) [metals] the reported value is estimated because the element also was detected in the associated field blank.
- J(EB) [metals] the reported value is estimated because the element also was detected in the associated equipment blank.
- U(TB) the reported value is considered as nondetected because the compound also was detected in the associated trip blank.

4. PUBLIC HEALTH RISK EVALUATION

4.1 INTRODUCTION

As part of the Site Inspection (SI) at Indiana Air National Guard Base (ANGB), a preliminary human health risk evaluation was conducted to evaluate risks of exposure to chemicals present at, or released from, the waste sites at the Base. A risk evaluation was performed for contaminants at the following sites:

- Site 1 Former Fire Training Area (FTA)
- Site 3 Hazardous Waste Collection Area (HWCA).

A preliminary risk evaluation has not been performed for Site 4. Because contamination at this site is a result of residue from a fuel spill, the response to the release will follow IDEM, OER UST System guidelines. Accordingly, investigations have been performed to develop data on environmental receptors and the potential exposure pathways of concern. This information was presented earlier in Section 3 and complies with IDEM, OER requirements.

An examination of potential human health risks due to exposure to site-related contaminants conducted during the SI process helped to determine the need for further investigations at the sites. This evaluation assesses the potential for adverse noncarcinogenic and carcinogenic effects following long-term or chronic exposure to site-related contaminants. The risk evaluation also incorporates comparison of sampling data with applicable or relevant and appropriate Federal and state requirements (ARARs). This evaluation, conducted as part of the SI at Indiana ANGB, is a preliminary evaluation and as such is not designed to be as comprehensive as that required for remedial investigation (i.e., baseline risk assessment). A brief discussion of ecological risks (i.e., nonhuman receptors) also has been included.

A risk evaluation is used as a decisionmaking tool for selecting appropriate remedial alternatives. Although exposure to humans may be negligible or even nonexistent, risk evaluation based on current and future land use activities, and other site-specific information,

may still be warranted to project potential risks to human health and to provide a useful measure of the magnitude or significance of site contamination.

4.2 DATA COLLECTION AND EVALUATION

This section evaluates the results of sampling and analysis of environmental media conducted at Site 1 - Former FTA and Site 3 - HWCA at Indiana ANGB for use in the preliminary public health risk evaluation. Analytical data from Phases I and II of the SI were validated using quality assurance/quality control (QA/QC) protocols and used to prepare summary statistics of the results. The summary tables provide information on frequency of detection; the minimum, maximum, and arithmetic mean concentrations of chemicals in environmental media at each site; and background concentrations.

4.2.1 Chemicals in Soil

The results of sampling activities and chemical analysis of soil samples obtained from Sites 1 and 3 have been described in detail in Section 3. Section 3 presents characteristics of the nature and extent of contamination, and compares chemical concentrations to background concentrations. A statistical analysis was performed to determine whether contaminant concentrations in site samples exceeded levels expected in the background soils. Site-related contamination may exist if chemical concentrations exceed levels expected in the background. Background levels are defined as chemical concentrations that would be expected in the absence of site-related disposal activities. A statistical approach for determining evidence of site-related contamination is to define background Upper Tolerance Limits (Tu) for each contaminant of potential concern, and to compare the Tu to chemical concentrations found at the site.

The Tu is an estimate of the proportion of background samples for each chemical that would be expected to be below an upper 95 percentile value 95 percent of the time if the Tu were repeatedly estimated. The selected comparison means, therefore, that there is a 95 percent probability (5 percent chance of false positive estimates) that the site sample data are less than the 95 percentile background Tu estimates.

The sample data for both chemicals of potential concern were assumed to be lognormally distributed, so to maintain comparability both background and site sample data were lognormally transformed. Upper Tolerance Limits were compared to the maximum sample result for each chemical of potential concern within each respective sampled area at Sites 1, 3, and 4. The results of this comparability exercise are shown in Table 4-1. In each case, the maximum detected site sample concentration fell below the background Tu, indicating that there is no statistical evidence of site-related contamination for these substances.

Based on the available information, the observed levels of metals in soils do not appear to be entirely site related, and could be partially from other sources at the Base. The presence of organic chemicals, however, can be attributed to activities at the sites.

During Phases I and II of the SI at Site 1, seven samples were collected from surficial soils (i.e., 0 to 2 feet below ground surface [BGS]). In addition, 35 subsurface soil samples were collected from Site 1. At Site 3, 11 soil samples were collected during the two phases of the investigation, including 6 surface samples from 0 to 2 feet BGS, 2 samples from 2 to 6 feet BGS, and 3 samples at varying depths from 6 to 40 feet BGS.

All chemicals positively identified in soil samples at Sites 1 and 3 have been included in the preliminary risk evaluation. Indicator chemicals were not used in the risk evaluation. The U.S. Environmental Protection Agency (EPA) notes that the use of indicator chemicals may facilitate the risk assessment process when dozens of compounds have been identified at a waste site, and time and resources prohibit the evaluation of the full (and often complex) data set (EPA 1989a). However, there is nothing inherent in the indicator selection process that improves the characterization of risk to human health or the environment. EPA does not recommend eliminating chemicals from the risk assessment based upon their presence in background samples (EPA 1989a).

Formally promulgated Federal and state ARARs for soil are not currently available. Therefore, ARAR comparison for soil has not been included in the preliminary evaluation of Indiana ANGB sites.

Table 4-1. Comparison of Background Soils and Site-Specific Soil Concentrations for Selected Chemical of Potential Concern 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| ANALYTE | NUMBER | BACKG | ROUND SAMI (Base lognormal) (in) | BACKGROUND SAMPLES (Base lognormal) (ln) | LOGNORMAL | COMPARISON | CONCLUSION |
|-----------------|--------------------|------------------------------|----------------------------------|------------------------------------------|----------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | OF SITE SAMPLES | NUMBER OF BACKGROUND SAMPLES | × | Tu≈X+Ks | MAXIMUM SITE CONCENTRATION | | |
| STE 1 | | | | | | | |
| Arsenic | 22 | 7 | 1.799 | 4.23 | 2.5 | 2.5<4.23 | -maximum site concentrations are less than background |
| Benzo-(a)pyrene | 98 | 6 | 5.47 | 7.259 | 99.99 | 6.685<7.259 | no statistical evidence of site related contamination -maximum site concentrations are less than background no statistical evidence of site related contamination |
| зпв з | | | | | | | |
| Arsenic | 10 | 7 | 1.799 | 4.23 | 3.03 | 3.03<4.23 | -maximum site concentrations are less than background |
| Benzo-(a)pyrene | 10 | 6 | 5.47 | 7.259 | None Detected | Ϋ́Z | no statistical evidence of site related contamination NA |
| STB 4 | | | | | | | |
| Arsenic | 12 | 7 | 1.799 | 4.23 | 2.43 | 2.43<4.23 | -maximum site concentrations are less than beckground |
| Benzo-(a)pyrene | 12 | 6 | 5.47 | 7.259 | 6.38 | 6.38<7.259 | no statutical evidence of site related contamination -maximum site concentrations are less than bedground so statistical evidence of site related contamination |
| | | | | | | | |

X - Mean Concentration
 Tu - Upper Tolerance Limit
 s - Relative Standard Deviation

K – Constant from Table A.3 "Methods for Evaluating the Attainment of Cleanup Standards – Volume 1 Soils and Solid Media".

4.2.2 Chemicals in Groundwater

Sections 1 and 3 of this report discussed the groundwater sampling conducted at Sites 1 and 3. Details on the locations of monitoring wells also are presented in Section 3.

The results of sampling and analysis of groundwater from Sites 1 and 3 indicate that site-related chemicals are not being transported to the groundwater. This may partially be attributed to the presence of relatively impermeable subsurface soils (clay material) at the site. The groundwater resource at the site is not a source of potable water for the Base or the city municipal water supply. As such, there is no exposure of Base personnel or the surrounding community to site-related chemicals by the groundwater pathway. In addition, the groundwater quality at the site is not suitable for potable water, and future use of groundwater from the site as a source of drinking water for the Base is not anticipated. Given the above information, a quantitative characterization of risks of hypothetical exposure to groundwater will not be presented in this evaluation. However, chemicals in groundwater are evaluated by comparison with ARARs.

Analytical results of groundwater samples were compared to concentrations in upgradient samples from the sites under investigation. All results were of the same order of magnitude as background concentrations. Section 3 provides additional details on concentration of metals in groundwater. Table 4-1a lists the ARARs for the groundwater contaminants detected at the site including maximum contaminant levels (MCLs), maximum contaminant level goals (MCLGs), proposed maximum contaminant level goals (PMCLGs), and State of Indiana water quality standards. The results of groundwater samples from both phases of the SI are compared to the above guidelines in Tables 4-2 and 4-3. As shown in Tables 4-2 and 4-3, the mean and maximum concentrations of the observed chemicals were compared to the relevant Federal ARARs. The frequency of detection of the chemicals in groundwater is also shown in Tables 4-2 and 4-3.

Table 4-1a. Applicable or Relevant and Appropriate Requirements for Groundwater: 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| | Fort Way | ne, Indiana | | | |
|--------------------|----------|-------------|----------|-------------|---------|
| | | | | | NDIANA |
| PARAMETER | MCL (a) | PMCL (a,b) | MCLG (a) | PMCLG (a,b) | MCL (e) |
| METALS | | | | | |
| Antimony | | 10/5 (c,d) | | 3 (d) | |
| Arsenic | 50 | | | | 50 |
| Beryllium | | 1 (d) | | 0 (d) | |
| Cadmium | 10 | 5 | | 5 | 10 |
| Chromium | 50 | 100 | | 100 | 50 |
| Copper | 1,000 * | 1,300 | | 1,300 | 1,000 * |
| Lead | 50 | 5 | | 0 | 50 |
| Nickel | | 100 (d) | | 100 (d) | |
| Zinc | 5,000 * | | | | 5,000 * |
| ORGANICS | | | | | |
| Methylene Chloride | | 5 (d) | | 0 (d) | |

All units are μ g/L for aqueous samples unless noted.

* - Secondary MCL, not an ARAR

- (a) MCLs, MCLGs, proposed MCLs, proposed MCLGs. Drinking Water Regulations and Health Advisories. Office of Water, USEPA, November 1991.
- (b) Proposed MCLs and proposed MCLGs. Federal Register: Rules and Regulations, Vol. 56, No. 20, Wednesday, January 30, 1991, Tables 1 and 2.
- (c) Two MCLs are proposed based on sample detection limits 5 or 10 times the contract required detection limit

(d) Proposed MCLs and MCLGs, July 25, 1990

(e) State MCLs have not been promulgated for Indiana, Federal MCLs are used instead

Table 4-2. Comparison of Groundwater Concentrations with ARARs at Site 1 - Former Fire Training Area -

| | 122ªd Tactical | Fighter Wing, Indiana | 122 nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana | rt Wayne, Indiana | à |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|------------------------------------------------------------------------------------------|-----------------------|---------------------------------|
| | | MEAN | | MAXIMUM | |
| | | CONCENTRATION | COMPARISON: | CONCENTRATION | COMPARISON: |
| Parameter | DETECTION | IN GROUNDWATER (48/L) | MEAN CONCENTRATION vs. ARARs | IN GROUNDWALER (#g/L) | MAXIMUM CONCENTRATION VS. ARARS |
| Total Petroleum Hydrocarbons | 1/6 | 0.58 | 1 | 1.00 | ; |
| INORGANICS | • | | | | |
| Antimony | 2/6 | 6.22 | 1 | 14.60 | > PMCL |
| Arsenic | 2/6 | 22.73 | 1 | 92.40 | > MC! |
| Beryllium | 3/6 | 1.35 | > PMCL | 2.21 | , |
| Cadmium | 1/6 | 0.95 | 1 | 1.70 | 11 |
| Chromium | 3/6 | 28.90 | 1 1 | 71.80 | > MCL |
| Copper | 9/9 | 44.25 | !! | 99.62 | |
| Lead | 9/9 | 21.35 | ! ! | 49.00 | !! |
| Nickel | 9/4 | 35.82 | 1 | 84.60 | !! |
| Zinc | 9/9 | 103.23 | | 221.00 | !! |
| VOLATILE ORGANICS | 9/0 | QN | 1 | ΩN | ! |
| SEMIVOLATILE ORGANICS | 9/0 | ND | • | ND | |
| - ARARs not exceeded MCL - Maximum Contaminant Level PMCL - Proposed Maximum Contaminant Level | rel aminant Level | | | | |

4-7

Table 4-3. Comparison of Groundwater Concentrations with ARARs at Site 3 - Hazardous Waste Collection Area - 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| | ועק ו שרנוגמו ד.ו | MEAN MEAN | MAN MAN MAN MAN MAXIMINATION OF THE MAYING MAN MAXIMINATION MAXIMINATI | Wayinc, indiana MAXIMIM | |
|---------------------------------------|-------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------|
| | FREOUENCY OF | CONCENTRATION IN GROUNDWATER | COMPARISON: MEAN CONCENTRATION | CONCENTRATION | CONCENTRATION COMPARISON: CONCENTRATION COMPARISON: IN GROUNDWATER MEAN CONCENTRATION IN GROUNDWATER MAXIMUM CONCENTRATION |
| Parameter | DETECTION | (µg/L) | vs. ARARs | (µg/L) | vs. ARARs |
| Total Petroleum Hydrocarbons | 2/0 | QN | 1 | QN | |
| INORGANICS | | | | | |
| Arsenic | 272 | 15.55 | 1 | 24.80 | |
| Beryllium | 21 | 1.40 | > PMCL | 1.80 |) > PMCL |
| Chromium | 71 | 37.80 | 1 1 | 69.10 | |
| Copper | 2/2 | 52.15 | !! | 82.30 | |
| Lead | 22 | 35.65 | ! ! | 43.40 | |
| Nickel | 4 | 41.40 | ! 1 | 76.80 | |
| Zinc | 2/2 | 102.50 | 1 | 179.00 | |
| VOLATILE ORGANICS | Ş |) | | | |
| Metnylene Chloride | 7/1 | 6.8 | t I | 00.0 | > FMCL |
| SEMIVOLATILEORGANICS | 0/2 | QN | • | QN | |
| ARAR not exceeded | | | | | |

- - AKAK not exceeded
MCL - Maximum Contaminant Level
PMCL - Proposed Maximum Contaminant Level

The following summarizes the results of the comparison of groundwater concentrations with relevant Federal and state ARARs:

- The mean and maximum concentrations of beryllium in groundwater at Sites 1 and 3 are above the PMCL of 1 μ g/L for the chemical. The source of beryllium cannot be attributed to the site.
- The mean concentration of all other chemicals in groundwater samples from Sites 1 and 3 are below relevant ARARs.
- In groundwater samples from Site 1, the maximum concentration of arsenic and chromium were above the MCLs for the respective compounds, and the maximum concentration of antimony was above the PMCL for the compound.
- In Site 3 groundwater samples, the maximum concentration of chromium exceeded the MCL and the maximum concentration of methylene chloride exceeded the PMCL for the respective compounds.

As discussed in Section 3, the metals in groundwater at the site at the detected concentrations are not considered to be entirely site related. Metals tend to be adsorbed easily to soils and are not easily transported by infiltrating water. Solubility of metals in water is mainly a function of oxidation state and pH. In a reducing environment or at a low pH, the solubility of metals increases; with increasing pH or oxidation, metals species are less soluble and precipitate out of the solution. Based on geotechnical tests conducted, pH of the site soils is between 7.7 and 8.2. At these pH levels, solubility of metals will be low. In addition, metals in the soil environment are relatively stable due to high sorption properties (high octanol/water partitioning coefficient). Therefore, metals mobility is limited in the soil environment at Site 1.

Based on site history, volatile organics would more likely be detected in the soils, especially fuel-related compounds and compounds that are a result of combustion operations (e.g., PAHs). This is because, in comparison to metals, some halogenated organics would more easily tend to be transported through the soil matrix. However, no VOCs were detected in the groundwater and only some VOCs were detected in the site soils at low concentrations. The

metals concentration detected in site groundwater can be considered to consist of the following three groups:

- Fraction that is naturally occurring in groundwater
- Fraction that is site related
- Fraction that is due to contributions from other sources.

Based on an evaluation of the analytical results and a review of the site geology, the fraction that is due to site-related contamination is considered to be minimal. It is difficult to estimate the fraction of metals concentration in groundwater that is actually from the site. However, it appears certain that the concentration of metals detected in groundwater is not entirely related to site activities.

4.3 EXPOSURE ASSESSMENT

4.3.1 Overview and Objectives

This section evaluates the potential for human exposure to contaminants present at, or released from, Sites 1 and 3 at Indiana ANGB. The results of exposure assessment in conjunction with the toxicity assessment are used in the characterization of potential risks to human health. The principal components adopted in the exposure assessment for Sites 1 and 3 at the Base are as follows:

- Evaluation of contaminant transport
- Identification and characterization of exposure pathways
- Identification of populations at risk of exposure
- Discussion of all assumptions used in deriving estimates of intake and dose.

The conceptual site model for Sites 1 and 3 and exposure assumptions or scenarios described in this section are the basis for exposure evaluation. It is important to recognize that the assumptions used in this section may contribute significantly to uncertainty in the results of the risk evaluation. The evaluation presented in this section follows the most current versions of EPA guidance on exposure and risk evaluation (EPA 1988, 1989a,b).

As specified by EPA, both current and future land uses need to be considered in evaluation of potential human health risks. The Base is located in the southwest side of the city of Fort Wayne, Indiana. Base property is guarded and secured, and the general public does not have direct access to this property. The use of this property is projected to remain under the control of the National Guard. Although the Indiana ANG property is surrounded by agricultural and commercial activities, there are currently no plans to return the land for use by the general public. For the purposes of risk evaluation, however, current and future land uses scenarios have been assumed to evaluate potential occupational exposure to Base personnel currently, and to onsite workers during construction, and receptors under a commercial exposure scenario in the future.

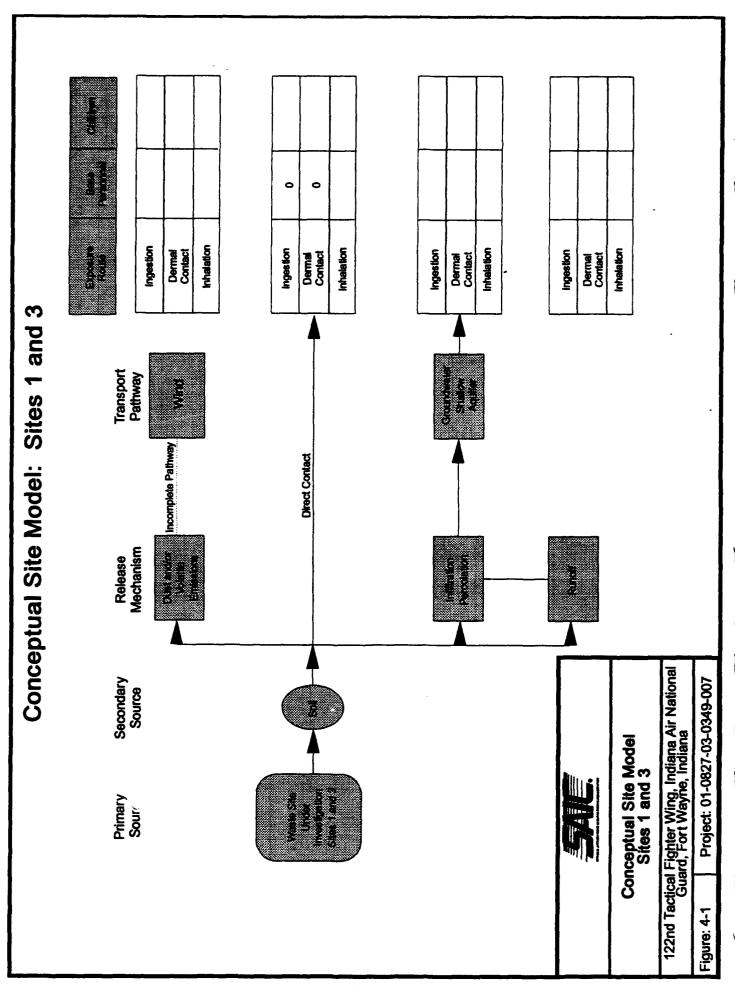
4.3.2 Characterization of Exposure Setting: Conceptual Site Models

In order to characterize the transport of chemicals from the source of release to potential receptors at risk, conceptual models of the waste sites under investigation at the Base have been prepared. Conceptual site models identify the sources and types of environmental release and link these with receptor locations and activity patterns to determine the principal exposure pathways of concern (EPA 1989a).

The conceptual exposure model for Sites 1 and 3 at the Base is presented in Figure 4-1. Based on the available background data, and discussions with Base personnel, it was determined that environmental transport and exposure pathways for Sites 1 and 3 are sufficiently similar as to be adequately characterized by a single model.

Soils at and 5 feet below the former FTA surface and the 4 feet of sand and gravel layer at Site 3 act as a primary source of chemicals released to soils beneath the sites. Once in soils, chemicals may be transported through runoff, infiltration or percolation to the subsurface soils, or to the atmosphere (via chirainment of particulates or volatile emissions).

Prior to construction of the Base, the lands were primarily used for agriculture. As a result, elevated levels of fertilizer and pesticide residues (particularly, antimony and arsenic-based pesticides) are expected to persist in the environmental media. Contribution of inorganic



contaminants arising due to earlier land use activities to the overall risks is an important factor in the evaluation of the public health and environmental impacts due to the activities at the ANG Base.

At present, land is used for a municipal airport adjacent to the Base to the west. This includes the airport terminal, aircraft maintenance warehouses, and light industrial land uses. Other land use adjacent to the Base is agricultural. Future increases in the ongoing industrial activities at the vicinity of the Base could enhance the hazard of commercial/industrial exposures to the onsite contaminants.

Base personnel are the potential receptor group of concern. In this preliminary evaluation, the exposure pathways of importance at Sites 1 and 3 are inadvertent ingestion and dermal exposure to contaminated surficial soils (i.e., direct contact). Based on a limited future land-use scenario at Site 3, commercial exposure, and exposure of construction workers to contaminated subsurface soils also are evaluated.

It is likely that wildlife would avoid paved and open areas (such as at Sites 1 and 3) used routinely by Base personnel, or characterized by soils or vegetation of unpleasant taste or odor. Because these sites do not provide wildlife habitats, bioaccumulation in wildlife is not a likely human exposure route.

Although contaminants may be released from the soil to air, inhalation exposure to suspended particulates and volatile organics from the sites is not anticipated be a significant exposure pathway of concern for the Base personnel or the general public.

The former FTA is covered with 5 to 12 feet of native fill that consists mostly of clay and relatively small amounts of construction debris. Therefore, direct exposure to site-related soil contaminants does not occur. Site 3 currently is being used as a storage area for a variety of oils and organic solvents. Activities records indicate that Site 1 is not used by the Base and as such exposure of the Base personnel are nonexistent. For the purpose of this risk evaluation, it is assumed that the Base personnel are exposed to chemicals at these sites 1 day a week

(1 hour per day), 52 weeks per year (a conservative estimate based on personal conversations with the Indiana ANGB officials, 1992). Risk evaluation for Sites 1 and 3 will be conducted for potential exposure to soils by the onsite workers.

Based on the geological characteristics of the region and the clayey nature of the subsurface soil, Sites 1 and 3 may be classified as low risk for direct exposure to contaminants in groundwater. As noted previously, groundwater is not a source of drinking water for Base personnel. The Base uses municipal water supply as the source of drinking water for military personnel. The municipal water supply originates from three river systems, including the St. Joseph River. Therefore, there is no exposure of Base personnel or the surrounding community to site-related chemicals by the groundwater pathway.

4.3.3 Exposure Assumptions

This section presents the equation and assumptions used in deriving intake estimates for potential receptors. Two exposure pathways are considered for current land use and two pathways are considered for the future construction scenario at Sites 1 and 3:

- Exposure through incidental ingestion of contaminated surficial soils by Base personnel for the current land use scenario
- Exposure through dermal contact to contaminated surficial soils by Base personnel for the current land use scenario
- Potential future exposure by ingestion of subsurface soils by onsite construction workers for the future land use scenario
- Potential future exposure through dermal contact with subsurface soils by onsite construction workers for the future land use scenario.

The land is usually paved during commercial developments of a site. Concrete pavement almost completely eliminates the risks of direct exposure to top soil contaminants. For the purposes of this risk evaluation, however, it is assumed that the lands used for commercial activities are not completely paved and that nonpaved areas within the commercial properties

pose a potential risk of direct exposure to the presence of onsite soil. For this commercial exposure scenario, two soil exposure pathways have been considered:

- Potential future commercial exposure by ingestion of subsurface soils under the future land use scenario
- Potential future commercial exposure through dermal contact with subsurface soils under the future land use scenario.

The exposure assumptions and factors that were selected to generate upper-bound conservative estimates of potential health risks are discussed below. These estimates should be regarded as preliminary screening-level characterizations and not absolute projections of the likelihood of adverse effects in humans.

Base personnel indicated that worker activity at Sites 1 and 3 is very limited (Indiana ANGB 1992). Site 1 is closed (no fire training activity), and as such, no Base personnel work in the immediate area. Further, the site is covered with 5 to 12 feet of native fill material; as a consequence, inadvertent exposure to site-related contaminants does not occur. Site 3 is being used as a storage space. Worker exposure frequency at this site is not anticipated to exceed three times a week. Incidental ingestion exposure of Base personnel to soils is projected to occur during maintenance and inspection activities at the sites under investigation.

In general, under current land-use conditions, there is no potential for direct exposure to chemicals in soils at a depth greater than 6 to 24 inches. However, during construction activities (e.g., excavation and construction of foundations or basements), it is assumed that workers may be exposed to soils to a depth of approximately 10 feet. In order to develop a measure of the significance of the observed levels of contamination at Indiana ANGB, the preliminary risk evaluation will evaluate hypothetical exposure of Base personnel to the mean and maximum concentrations of chemicals in the soil column to a depth of 10 feet. Contamination below this depth will not be evaluated for soil exposure pathways.

The exposure concentrations that form the basis of risk estimates are typically the arithmetic averages of the environmental concentration that the receptor is projected to experience

over the exposure period (EPA 1989a). Because of the uncertainty associated with any estimate of exposure concentration, the upper confidence limit (i.e., the 95 percent confidence limit) on the arithmetic average is recommended by EPA for use in risk assessment (EPA 1989a).

The 95th percent upper-bound risk estimate based on the arithmetic mean would fall between the arithmetic average and the maximum observed value at the site. Risk estimates based upon these "reasonable maximum exposure" (RME) concentrations provide a basis for characterizing the upper-bound risks to human health. It should be noted, however, that if the sample set is very small, or if there is considerable variability in measured concentrations, the RME estimate of the arithmetic mean may exceed the maximum value observed at the site. Under these circumstances, EPA recommends adopting the maximum observed concentration as the basis of the risk assessment.

For the screening-level evaluation, risk estimates will be derived using both the arithmetic mean and the maximum observed concentrations in soils. RME concentrations calculated using the available data sets typically were above the maximum observed concentrations. Use of the arithmetic mean and the maximum concentrations have bounded the estimates of potential risks to human health. The mean concentrations used in the exposure assessment were calculated as the weighted arithmetic mean of the data sets obtained during both phases of the SI.

4.3.4 Intake Estimates for Current Land Use

For a current land-use scenario, two exposure pathways are used as the basis for estimating risks of exposure to soil for Base personnel: ingestion and dermal exposure to contaminants detected in samples collected from 0 to 2 feet BGS.

4.3.4.1 Ingestion Exposure of Base Personnel

Based on the current activities at the sites, intake estimates for ingestion exposure of Base personnel to soils in the vicinity of the former FTA and HWCA are determined as follows:

where:

- C = Arithmetic mean or maximum chemical concentration in soils. Not detected values treated as one-half the limit of detection.
- CR = Contact rate: 0.1 gram/day projected as conservative exposure in the absence of site-specific information (EPA default value: Exposure Factors Handbook, EPA 1989b).
- CF = Conversion factor to intake in units of mg/day: 10⁶ Kg/mg.
- EF = Exposure frequency: 1 day every week (52 days per year). Conservative exposure frequency estimate for Base personnel (Indiana ANGB 1992).
- ED = Exposure duration: 30 years. Upper-bound estimate of period of employment or service at the Base.
- BW = Average body weight for adults: 70 Kg.
- AT = Averaging time for noncarcinogenic effects, chronic exposure: 30 years x 365 days/year. Averaging time for cancer risk estimates: 70 years x 365 days/year.

All chemicals are assumed to be conservative in the environment (i.e., they do not transform or degrade over the period of exposure) and 100 percent bioavailable for uptake and absorption. The use of equation (1) above is in accordance with methods proposed by EPA in the Risk Assessment Guidance for Superfund (EPA 1989a).

4.3.4.2 Dermal Exposure of Base Personnel

Dermal exposure is assumed to occur simultaneously with inadvertent ingestion exposure during maintenance or inspection activities. The skin surface area of arms and hands are assumed to be available for contact with soil.

Dose estimates for dermal exposure of Base personnel to soils in the vicinity of the former FTA and the HWCA are determined as follows:

where:

- C = Arithmetic mean or maximum chemical concentration in surface soils or sediments. Not detected values treated as one-half the limit of detection.
- CF = Conversion factor to intake in units of mg/day: 10⁶ Kg/mg.
- SA = Skin surface area available for contact: hands and arms 3,120 cm² (EPA 1989b).
- AF = Soil to skin adherence factor: 1.45 mg/cm² (EPA 1989a). Average of EPA value for potting soil used as default in the absence of site-specific information.
- ABS = Relative absorption factor: 1 percent (0.01) for metals and inorganics, and 25 percent (0.25) for organics (Ryan et al. 1987).
- EF = Exposure frequency: One day every week (52 days per year). Conservative exposure frequency estimate for Base personnel (Indiana ANGB 1992).
- ED = Exposure duration: 30 years. Upper-bound estimate of period of employment or service at the Base.
- BW = Average body weight for adults: 70 Kg.
- AT = Averaging time for noncarcinogenic effects, chronic exposure: 30 years x 365 days/year. Averaging time for cancer risk estimates: 70 years x 365 days/year.

All chemicals are assumed to be conservative in the environment (i.e., they do not transform or degrade over the period of exposure). The use of equation (2) above is in accordance with methods presented by EPA in the Risk Assessment Guidance for Superfund (EPA 1989a).

4.3.5 Intake Estimates For Future Land-use Scenario

Similar to the current land use scenario, two exposure pathways were used as the basis for estimating risks for exposure to onsite construction workers and receptors under the commercial exposure scenario: ingestion and dermal exposure to contaminants detected in soil samples collected from 0 to 10 feet BGS.

4.3.5.1 Limited Ingestion Exposure of Onsite Construction Workers

Construction or repair work is anticipated as plausible future activities at Site 3. Although there are no plans for construction activities at Site 1, these pathways were applied to this site to address the future land-uses scenario in a consistent manner. Exposure estimates are

derived for limited exposure of onsite construction workers to subsurface soil contaminants during digging and excavation at the sites under evaluation. For the purposes of quantifying the dose, contaminant concentrations of soil samples collected from 0 to 10 feet BGS. The exposure equation used for inadvertent soil ingestion by onsite workers is as follows:

where:

- C = Arithmetic mean or maximum chemical concentration in soil samples from 0 to 10 feet BGS. Not detected values treated as one-half the limit of detection.
- CR = Contact rate: 0.1 gram/day projected as conservative exposure in the absence of site-specific information (EPA default value: Exposure Factors Handbook, EPA 1989b).
- CF = Conversion factor to intake in units of mg/day: 10⁶ Kg/mg.
- EF = Exposure frequency: 5 days per week for 1 year (250 days/year).
- ED = Exposure duration: One year. Upper-bound estimate of period of construction or repair works at the site.
- BW = Average body weight for adults: 70 Kg.
- AT = Averaging time for noncarcinogenic effects, chronic exposure: 1 year x 365 days/year. Averaging time for cancer risk estimates: 70 years x 365 days/year.

All chemicals are assumed to be conservative in the environment (i.e., they do not transform or degrade over the period of exposure) and 100 percent bioavailable for uptake and absorption. The use of equation (3) above is in accordance with methods proposed by EPA in the Risk Assessment Guidance for Superfund (EPA 1989a).

4.3.5.2 Limited Dermal Exposure of Onsite Construction Workers

For the dermal exposure pathway, the preliminary risk evaluation will evaluate exposure of construction workers to the mean and maximum concentrations of chemicals in the soil column to a depth of 10 feet.

Dose estimates for dermal exposure for construction workers are as follows:

where:

- C = Arithmetic mean or maximum chemical concentration in soil column of 0 to 10 feet in depth. Not detected values treated as one-half the limit of detection.
- $CF = Conversion factor 10^{-6} \text{ Kg/mg}.$
- SA = Skin surface area available for contact: hands and arms 3,120 cm² (EPA 1989b).
- AF = Soil to skin adherence factor: 1.45 mg/cm² (EPA 1989a). Average of EPA value for potting soil used as default in the absence of site-specific information.
- ABS = Absorption factor: 1 percent (0.01) for metals and inorganics, and 25 percent (0.25) for organics (Ryan et al. 1987).
- EF = Exposure frequency: 5 days per week for 1 year (250 days/year).
- ED = Exposure duration: 1 year. Upper-bound estimate of period for construction or repair work at the site.
- BW = Average body weight for adults: 70 Kg.
- AT = Averaging time for noncarcinogenic effects, chronic exposure: 1 year x 365 days/year. Averaging time for cancer risk estimates: 70 years x 365 days/year.

All chemicals are assumed to be conservative in the environment (i.e., they do not transform or degrade over the period of exposure). The use of equation (4) above is in accordance with methods presented by EPA in the Risk Assessment Guidance for Superfund (EPA 1989a).

4.3.5.3 Commercial Exposures by Ingestion of Onsite Soil

Exposure estimates are derived for limited commercial exposures to onsite soil present in unpaved areas. For the purposes of quantifying the dose, contaminant concentrations of soil

samples collected from 0 to 10 feet BGS have been used. The exposure equation used for inadvertent soil ingestion is as follows:

where:

- C = Arithmetic mean or maximum chemical concentration in soil samples from 0 to 10 feet BGS. Not detected values treated as one-half the limit of detection.
- CR = Contact rate: 0.05 gram/day projected as conservative exposure in the absence of site-specific information (EPA default value: Exposure Factors Handbook, EPA 1989b).
- CF = Conversion factor to intake in units of mg/day: 10⁻⁶ Kg/mg.
- EF = Exposure frequency: 5 days per week for 1 year (250 days/year).
- ED = Exposure duration: 25 years. Upper-bound estimate for commercial/industrial activities.
- BW = Average body weight for adults: 70 Kg.
- AT = Averaging time for noncarcinogenic effects, chronic exposure: 25 years x 365 days/year. Averaging time for cancer risk estimates: 70 years x 365 days/year.

All chemicals are assumed to be conservative in the environment (i.e., they do not transform or degrade over the period of exposure) and 100 percent bioavailable for uptake and absorption. The use of equation (3) above is in accordance with methods proposed by EPA in the Risk Assessment Guidance for Superfund (EPA 1989a).

4.3.5.4 Commercial Exposure by Dermal Route to Onsite Soil

For the dermal exposure pathway, the preliminary risk evaluation will evaluate commercial exposure to the mean and maximum concentrations of chemicals in the soil column to a depth of 10 feet.

Dose estimates for dermal exposure for construction workers are as follows:

where:

- C = Arithmetic mean or maximum chemical concentration in soil column of 0 to 10 feet in depth. Not detected values treated as one-half the limit of detection.
- CF = Conversion factor 10⁻⁶ Kg/mg.
- SA = Skin surface area available for contact: hands and arms 3,120 cm² (EPA 1989b).
- AF = Soil to skin adherence factor: 1 mg/cm² (EPA 1989a). Average of EPA value for potting soil used as default in the absence of site-specific information.
- ABS = Absorption factor: 1 percent (0.01) for metals and inorganics, and 25 percent (0.25) for organics (Ryan et al. 1987).
- EF = Exposure frequency: 5 days per week for 1 year (250 days/year).
- ED = Exposure duration: 25 years. Upper-bound estimate of period for construction or repair work at the site.
- BW = Average body weight for adults: 70 Kg.
- AT = Averaging time for noncarcinogenic effects, chronic exposure: 25 years x 365 days/year. Averaging time for cancer risk estimates: 70 years x 365 days/year.

All chemicals are assumed to be conservative in the environment (i.e., they do not transform or degrade over the period of exposure). The use of equation (4) above is in accordance with methods presented by EPA in the Risk Assessment Guidance for Superfund (EPA 1989a).

4.4 TOXICITY ASSESSMENT

Identification of toxicological measures for the contaminants of concern is a critical step in the health risk evaluation process. The objectives of toxicity assessment are to evaluate the inherent toxicity of the compounds under investigation and to identify and quantify toxicological measures of potential concern.

EPA has provided guidelines for quantitative estimation of carcinogenic and noncarcinogenic risks for virtually all hazardous chemicals detected at Superfund sites. Toxicity-based health risk evaluation requires quantitative measures of critical toxicologic endpoints of health relevance.

In order to evaluate noncarcinogenic and carcinogenic health risks, EPA has adopted two basic approaches for toxicity assessment based on the proposed mechanisms of induction of toxic effects. In assessing the noncarcinogenic or systemic effects, EPA assumes the existence of a threshold dose below which no adverse health effects would be manifested in an exposed receptor. The threshold assumption in the dose-response relationship for systemic effects assumes that adaptive or compensating processes that normally operate in living systems must be overcome before adverse effects become manifest in the exposed organism. In contrast, however, EPA assumes a "nonthreshold" mechanism of action for carcinogenic effects. Here, it is believed that any exposure to a carcinogen carries a risk of adverse effect; for example, that a limited number of molecular events can result in permanent chromosomal changes leading to uncontrolled cellular proliferation leading to neoplastic development.

EPA derives reference doses (RfDs) and reference concentrations (RfCs) for use in evaluating the potential for adverse noncarcinogenic effects. RfDs and RfCs are defined as dose estimates (with uncertainty spanning one order of magnitude or greater) expressed as daily exposure levels for the human population, including sensitive subpopulations, that are likely to be without an appreciable risk of deleterious effects during a lifetime (EPA 1989a). RfDs are toxicity measures used in evaluating risks of exposure via the oral route, whereas RfCs are used in evaluating risks via the inhalation exposure.

The chemical-specific reference doses for chronic adverse effects in humans or experimental animals are based on the no-observable-adverse-effect level (NOAEL) or lowest-observable-adverse-effect level (LOAEL) in a dose-response curve from a chronic human or animal bioassay. The RfD for oral exposure is derived as follows:

where:

NOAEL = No-observable-adverse-effect level (mg/Kg body

weight/day)

UF = Uncertainty factor (unitless)

MF = Modifying factor (unitless).

The inhalation RfC is derived as follows:

where:

NOAEL_{THEC1} = No-observable-adverse-effect level (mg/Kg body

weight/day) adjusted to human equivalent concentration

UF = Uncertainty factor (unitless)

MF = Modifying factor (unitless).

A brief description of the principal study and the uncertainty factors used in the derivation of the RfD for various chemicals of concern at this site are described in Appendix G.

For the purposes of evaluating carcinogenic effects, EPA has adopted a two-step approach in which the carcinogenic chemical is first assigned a weight-of-evidence classification based on the evidence of carcinogenicity in human and experimental data, and then a cancer potency factor (slope factor) for a specific data set on tumor induction (see Appendix G for details). The cancer slope factors for oral exposure or inhalation routes is an indicator of the cancer causing potency of the chemical. The cancer potency factor is a plausible upper-bound estimate of the slope of the dose-response curve in the low dose range. It is denoted as the probability of a cancer response per unit intake of a chemical over a lifetime. In risk assessment, the cancer slope (potency) factor is used to estimate the excess lifetime probability of a carcinogenic effect occurring in exposed receptors.

In conducting an evaluation of risk of exposure to chemicals at the Base, two toxicity measures of principal importance may be identified:

- RfDs for oral exposure acceptable intake values for subchronic and chronic exposure (noncarcinogenic effects)
- Cancer slope factors for oral exposure.

The primary source of toxicologic information used for risk characterization at the Base is the EPA Integrated Risk Information System (IRIS) data base. IRIS is a on-line data base for risk assessment and risk management information for chemical substances. Data in the IRIS system are regularly reviewed and updated monthly. If toxicity measures are not available on IRIS, EPA recommends use of the EPA ORD Health Effects Assessment Summary Tables (HEAST FY 1991: EPA 1991) as the second current source of information. Table 4-4 summarizes the toxicity measures used in the public health risk evaluation at the Base.

Note that RfDs or slope factors have not been developed by EPA for the dermal exposure route. In the absence of these factors, the common practice has been to use the available toxicity measures for the oral route of exposure. This approach has been adopted in the preliminary risk evaluation of the Indiana ANG sites under investigation. Note, however, that there is considerable uncertainty in the use of oral measures for the dermal exposure pathway. The results of risk evaluation that incorporate these measures should not be interpreted as characterizing actual risks to human health via the dermal exposure pathway. The risk measures derived for this pathway should be considered only a screening-level tool for evaluating the relative significance of the observed levels of contamination in environmental media.

In evaluating the dermal pathway, EPA recommends expressing chemical intake as absorbed dose and adjusting the oral toxicity measures also to reflect absorbed dose (EPA 1989a). The adjustment of the oral toxicity measure can be accomplished only if sufficient data are available in the principal laboratory studies on oral absorption efficiency in the species on which the toxicity measures are based. EPA notes that exposure estimates for absorption efficiency should not be adjusted if the toxicity values are based on administered doses (EPA 1989a).

Table 4-4. Toxicity Measures for Waste Site Evaluation: Ingestion and Dermal Exposure Pathways * 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| Chemical Classes of Concern | Oral RfD (mg/kg/day) | Inhalation RfD (mg/kg/day) | Cancer Slope Factor Oral Route (mg/kg/day)-1 | | Cancer Slope Factor Inhalation Route (mg/kg/day)-1 | Reference |
|-----------------------------|-------------------------|-------------------------------|----------------------------------------------------|---------------|----------------------------------------------------------|-------------|
| INORGANICS | | | | | | |
| Antimony | 4.0E-04 | NA | | | NA | a |
| Arsenic | 1.0E-03 | NA | | [A] | 5.00E+01 [A] | a |
| Beryllium | 5.0E-03 | NA | | [B2] | 8.40E+00 [B2] | а |
| Cadmium | 5.0E-04 | 5.0E-04 | • • • • | | 6.10E+00 [B1] | a |
| Chromium (III) | 1.0E+01 | 5.0E-07 | | | NA | а |
| Chromium (VI) | 5.0E-03 | NA | NA | - | 4.10E+01 [A] | a, i |
| Copper | 3.7E-02 | NA | NA | | NA | b, k |
| Lead | 1.4E-03 | 1.4E-03 | NA | | NA | ь, j |
| Mercury | 3.0E-04 | 8.6E-05 | NA | | NA | b |
| Nickel | 2.0E-02 | NA | NA | | NA | a, b |
| Thallium | 7.0E-05 | NA | NA | | NA | ь |
| Zinc | 2.0E-01 | NA | NA | | NA | b |
| VOLATILE ORGANICS | | | | | | |
| Acetone | 1.0E-01 | NA | NA | | NA | a, b |
| Benzene | NA | NA | 2.90E-02 | [A] | 2.90E-02 [A] | a, b |
| Ethylbenzene | 1.0E-01 | NA | NA | • • | NA | a |
| 2-Hexanone | NA | NA | NA | | NA | a, c |
| 4-Methyl-2-pentanone | 5.0E-02 | 2.3E-02 | NA | | NA | a |
| Toluene | 2.0E-01 | 5.7E-01 | NA | | NA | а |
| Xylene (total) | 2.0E+00 | 7.0E-01 | NA | | NA | a, d |
| SEMIVOLATILE ORGANICS | | | | | | |
| Bis(2-ethylhexyl)phthalate | 2.0E-02 | 2.0E-02 | 1.40E-02 | [B 2] | 1.40E-02 [B2] | a, b |
| Acenaphthene | 4.0E-03 | NA | NA | | NA | a, b |
| Anthracene | 4.0E-03 | NA | 1.00E+00 | [B2] | 1.00E+00 [B2] | a, e |
| Benz[a]anthracene | 4.0E-03 | NA | 1.67E+00 | [B2] | NA [B2] | f, g |
| Benzo[b]fluoranthene | 4.0E-03 | NA | 1.61E+00 | iaı' | NA [B2] | f, g |
| Benzo[k]fluoranthene | 4.0E-03 | NA | 7.59E-01 | [B2] | NA [B2] | f, g |
| Benzo[a]pyrene | 4.0E-03 | NA | 1.15E+01 | [B2] | 6.10E+00 [B2] | f, g |
| Chrysene | 4.0E-03 | NA | 5.06E-02 | į B2j | 1.40E-02 [C] | f, g |
| Dibenzofuran | 1.0E-03 | NA | NA | | NA | f, g |
| Fluoranthene | 4.0E-02 | NA | NA | | NA | f, g |
| Indeno[1,2,3-cd]pyrene | 4.0E-03 | NA | | [C] | NA [B2] | f, g |
| Phenanthrene | 4.0E-03 | NA | | 1 | NA (DE) | f, g |
| Рутеле | 3.0E-02 | NA | | {D} | 9.30E-01 [D] | f, g |

NA = Not available; [P] = Proposed

(a) Integrated Risk Information System (IRIS) data base (as of October 1991).

(d) Toxicity measures presented are for mixed xylenes.

^{*} Quantitative toxicity parameters were obtained from published studies and IRIS data base

⁽b) EPA Health Effects Assessment Summary Tables (HEAST) FY 1991, or Superfund Public Health Evaluation Manual (1986).

⁽c) Hazardous Substances Data Bank (HSDB) on-line data base (as of January 1992).

⁽e) Unit risk estimate based on use of toxicity equivalence factors and revised ingestion unit risk for B[a]P from (e) 2-stage and (f) linearized multistage model (Clements Associates 1988).

⁽g) In the absence of chemical-specific quantitative toxicity parameters, the RfD for naphthalene was adopted for this PAH.

⁽i) Reference doses for hexavalent chromium oral route.

⁽j) RfD for Pb is under evaluation by EPA; an earlier RfD (from HEAST 1989) for lead is listed in this table.

⁽k) RfD derived from the EPA drinking water standard as listed in EPA 1989 HEAST 2nd Quarter Report.

4.5 RISK CHARACTERIZATION

4.5.1 Overview

The principal aim of the human health risk evaluation is to determine if exposure to chemicals present at, or released from, the sites under investigation pose an unacceptable level of risk to human health. Risk characterization brings together the results of the exposure and toxicity assessments to derive a quantitative measure of risk. The risk estimates obtained in this manner serve in the decisionmaking process for site remediation.

Noncancer risk estimates for individual chemicals are a measure of the potential for adverse systemic effects for that chemical and termed Hazard Quotient (HQ) whereas Hazard Index (HI) is the indicator of noncancer risks for combined exposure to all chemicals of concern for an exposure pathway. The HQ is the ratio of intake or dose divided by the EPA RfD or RfC. Cancer risks are probabilistic estimates of the additional or excess incidence of cancer in an individual attributable to exposure to site-related chemicals. Excess lifetime cancer risks are determined by multiplying the estimated route-specific intake or average daily intake (ADI) with cancer potency factors (or cancer slope factors) (see Appendix G for a more detailed discussion).

Cancer risk estimates are commonly based on prolonged periods of exposure involving decades of periodic contact with contaminated environmental media. Since EPA has adopted a non-threshold mechanism for the process carcinogenesis, any exposure to carcinogens is assumed to contribute an incremental level of increased cancer risks. It is important to note, however, that exposure duration adopted for cancer risk characterization in future land-use scenarios at the Indiana ANGB are very short, and as such, these scenarios and risk estimates have to be viewed as screening-level estimates.

4.5.2 Guidelines for Risk Characterization

EPA guidelines for evaluating noncarcinogenic effects specify determination of an HQ for a given chemical in a contaminated medium. If the HQ for a contaminant (HQ: ratio of daily intake or dose and the chemical-specific RfD) is > 1, it is concluded that there may be potential for adverse noncarcinogenic effects at the given exposure/dose level. In evaluating exposure to multiple chemicals (noncarcinogens), the HQs are summed for all chemicals under

evaluation. If the sum of these ratios, the HI is > 1, the potential for adverse noncarcinogenic effects exists. Under these circumstances, EPA recommends segregating the compounds into chemical groups with similar toxicological effects, and re-evaluating the combined potential of segregated groups of chemicals for adverse health effects.

Carcinogenic risk estimates are probabilistic measures of the excess lifetime cancer risks to the individual above the background levels (i.e., due to exposure to contaminants from the site). For carcinogenic effects, the total excess lifetime cancer risk to all contaminants should fall within the acceptable range of 10⁻⁴ to 10⁻⁶. Although the 10⁻⁶ risk level is identified by EPA as a "point of departure" in evaluating the results of risk evaluation, the revised National Contingency Plan (NCP) indicates that the 10⁻⁴ level is the upper bound of the acceptable range (55 FR 8666).

The EPA guidelines for noncarcinogenic and carcinogenic risk characterization have been adopted in the evaluation and interpretation of risks at Indiana ANG sites.

4.5.3 Risk Characterization for Current Land-use Scenario

The results of risk characterization for current land-use scenarios at Sites 1 and 3 are shown in Tables 4-5 through 4-8. Each table presents: 1) the contaminant chemicals under evaluation, 2) the weighted arithmetic mean and maximum concentrations, 3) the HQs and HIs for assessing the potential for adverse noncarcinogenic effects, and 4) estimates of excess lifetime cancer risk for each chemical and total risks combined across chemicals (Appendix G provides additional discussion of risk assessment methods). In order to bound the potential risks to human health, cancer risk estimates and estimates of the potential for noncarcinogenic effects are derived based on mean and maximum soil concentrations.

Tables 4-5 and 4-7 and Tables 4-6 and 4-8 summarize the risk estimates for current landuse conditions at Sites 1 and 3 for ingestion exposure and dermal contact, respectively. As indicated in Tables 4-5 and 4-8, both noncancer and cancer risk estimates for Site 1 fall within the acceptable range established by EPA for waste site remediation. This applies to the risk estimates derived for both weighted arithmetic mean and maximum concentrations of

Table 4-5. Risk Characterization for Site 1 - Former Fire Training Area Ingestion Exposure of Base Personnel to Surficial Soil Contaminants 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| Chemical | Mean (a) Concentrations in Surface Soil (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1*) | Maximum (b) Concentrations in Surface Soil (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1°) |
|---------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|
| INORGANICS | | <u> </u> | | | | |
| Antimony | 2.16 | 1.08E-03 | | 4.9 | 2.45E-03 | |
| Arsenic | 8.83 | 1.77E-03 | 1.34E-06 | 12.6 | 2.52E-03 | 1.92E-0 |
| Beryllium | 0.66 | 2.64E-05 | 2.47E-07 | 1.7 | 6.80E-05 | 6.36E-0 |
| Cadmium | 0.62 | 2.48E-04 | | 1.2 | 4.80E-04 | |
| Chromium | 15.06 | 6.02E-04 | | 20.3 | 8.12E-04 | |
| Copper | 22.49 | 1.22E-04 | | 34.6 | 1.87E-04 | |
| Lead | 19.57 | 2.80E-03 | | 33.9 | 4.84E-03 | |
| Nickel | 24.49 | 2.45E-04 | | 36.5 | 3.65E-04 | |
| Thallium | 0.33 | 9.43E-06 | | 0.55 | 1.57E-05 | |
| Zinc | 70.73 | 7.07E-05 | | 116 | 1.16E-04 | |
| VOLATILE ORGANICS | | | | | | |
| Acetone | 0.03 | 6.00E-08 | | 0.07 | 1.40E-07 | |
| Toluene | 0.083 | 8.30E-08 | | 0.25 | 2.50E-07 | |
| SEMIVOLATILE ORGANICS | | | | | | |
| Benzo[a]pyrene | 0.269 | 1.35E-05 | 2.69E-07 | 0.66 | 3.30E-05 | 6.60E-0 |
| Benzo[b]fluoranthene | 0.444 | 2.22E-05 | 6.22E-08 | 1.3 | 6.50E-05 | 1.82E-0 |
| Fluoranthene | 0.354 | 1.77E-06 | | 0.71 | 3.55E-06 | |
| Pyrene | 0.353 | 1.77E-05 | 8.20E-09 | 0.7 | 3.50E-05 | 1.63E-0 |
| Indeno[1,2,3-cd]pyrene | 0.236 | 1.57E-06 | 5.34E-09 | 0.5 | 3.33E-06 | 1.13E-0 |
| | | Results based on m | ean values | | Results based on ma | aximum values |
| Hazard Index (HI): (Combined Exposure) (d) | | 7.02E-03 | | | 1.20E-02 | |
| Excess Lifetime Cancer Risk: (Combined Exposure) (d) | | | 1.94E-06 | | 1 | 3.42E-0 |

RfD = Reference Dose; Cancer Slope Factor = Cancer Potency Factor (q1*).

(b) Maximum surface soil concentrations obtained from 1990 and 1991 sampling data sets for top 2 feet of soil.

⁽a) Arithmetic mean of the surface soil concentrations obtained from 1990 and 1991 sampling data sets for top 2 feet of soil.

⁽c) Average daily intake calculated assuming exposure to mean and maximum concentrations of chemicals in surface soil through ingestion.

Exposure Assumptions: Inadvertent ingestion by Base personnel of 0.1 gms of soil/day, 1 day/week, 52 days/year, for 30 years of a 70—year lifetime.

All ingested chemicals are assumed to be 100% bioavailable.

⁽d) Risk estimates for combined exposure to maximum concentrations are for illustrative purposes only. Risk characterization for lead is based on an earlier EPA reference dose of 0.0014 mg/kg/day (SPHEM 1986).

Table 4-6. Risk Characterization for Site 1 - Former Fire Training Area Dermal Exposure of Base Personnel to Surficial Soil Contaminants 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| Chemical | Mean (a) Concentrations in Surface Soil (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1*) | Maximum (b) Concentrations in Surface Soil (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1°) |
|---------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|
| INORGANICS | | | | | <u> </u> | |
| Antimony | 2.16 | 4.97E-04 | | 4.9 | 1.13E-03 | |
| Arsenic | 8.83 | 8.13E-04 | 6.10E-07 | 12.6 | 1.16E-03 | 8.71E-0 |
| Beryllium | 0.66 | 1.22E-05 | 1.12E-07 | 1.7 | 3.13E-05 | 2.89E-0 |
| Cadmium | 0.62 | 1.14E-04 | | 1.2 | 2.21E-04 | |
| Chromium | 15.06 | 2.77E-04 | | 20.3 | 3.74E-04 | |
| Copper | 22.49 | 5.60E-05 | | 34.6 | 8.61E-05 | |
| Lead | 19.57 | 1.29E-03 | | 33.9 | 2.23E-03 | |
| Nickel | 24.49 | 1.13E-04 | | 36.5 | 1.68E-04 | |
| Thallium | 0.33 | 4.34E-06 | | 0.55 | 7.24E-06 | |
| Zinc | 70.73 | 3.26E-05 | | 116 | 5.34E-05 | |
| VOLATILE ORGANICS | | | | | | |
| Acetone | 0.03 | 6.90E-07 | | 0.07 | 1.61E-06 | |
| Toluene | 0.083 | 9.54E-07 | | 0.25 | 2.88E-06 | • |
| SEMIVOLATILE ORGANICS | | | | | | |
| Benzo[a]pyrene | 0.269 | 1.55E-04 | 2.78E-06 | 0.66 | 3.80E-04 | 6.83E-0 |
| Benzo[b]fluoranthene | 0.444 | 2.55E-04 | 6.43E-07 | 1.3 | 7.48E-04 | 1.88E-0 |
| Fluoranthene | 0.354 | 2.04E-05 | | 0.71 | 4.08E-05 | |
| Pyrene | 0.353 | 2.03E-04 | 8.48E-08 | 0.7 | 4.03E-04 | 1.68E-0° |
| Indeno[1,2,3-cd]pyrene | 0.236 | 1.81E-05 | 5.52E-08 | 0.5 | 3.83E-05 | 1.17E-0 |
| | | Results based on m | can values | | Results based on ma | aximum values |
| Hazard Index (Hl): (Combined Exposure) (d) | | 3.86E-03 | 1 | | 7.07E-03 |] |
| Excess Lifetime Cancer Risk: (Combined Exposure) (d) | | | 4.29E-06 | | 1 | 1.02E-0 |

(b) Maximum surface soil concentrations obtained from 1990 and 1991 sampling data sets for top 2 feet of soil.

RfD = Reference Dose; Cancer Slope Factor = Cancer Potency Factor (q1°).
(a) Arithmetic mean of the surface soil concentrations obtained from 1990 and 1991 sampling data sets for top 2 feet of soil.

⁽c) Average daily intake calculated assuming exposure to mean and maximum concentrations of chemicals in surface soil through ingestion. Exposure Assumptions: Incidental dermal exposure by Base personnel of 0.1 gms of soil/day for 1 day/week, 52 days/year, for 30 years of a 70-year lifetime. Surface area of arms and hands, and soil adherence factor were adopted from RAGS 1989. Availability of organic and metallic compounds were approximated at 25% and 1% of the organic and metal concentrations, respectively.

⁽d) Risk estimates for combined exposure to maximum concentrations are for illustrative purposes only. Risk characterization for dermal exposure to lead is based on an earlier EPA oral reference dose of 0.0014 mg/kg/day (SPHEM 1986).

Table 4-7. Risk Characterization for Site 3 - Hazardous Waste Collection Area Ingestion Exposure of Base Personnel to Surficial Soil Contaminants 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| Chemical | Mean (a) Concentrations in Surface Soil (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1°) | Maximum (b) Concentrations in Surface Soil (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1°) |
|---------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|
| INORGANICS | | | | | | |
| Arsenic | 9.60 | 8.64E-03 | 6.72E-06 | 20.70 | 1.86E-02 | 1.45E-05 |
| Beryllium | 0.49 | 8.82E-05 | 8.43E-07 | 0.98 | 1.76E-04 | 1.69E-0 |
| Cadmium | 0.58 | 1.04E-03 | | 1.80 | 3.24E-03 | |
| Chromium | 7.18 | 1.29E-03 | | 11.70 | 2.11E-03 | |
| Copper | 24.16 | 5.88E-04 | | 31.40 | 7.64E-04 | |
| Lead | 10.62 | 6.83E-03 | | 16.30 | 1.05E-02 | |
| Mercury | 0.02 | 6.00E05 | | 0.03 | 9.00E-05 | |
| Nickel | 13.12 | 5.90E-04 | | 24.10 | 1.08E-03 | |
| Thallium | 0.26 | 3.34E-03 | | 0.58 | 7.46E-03 | |
| Zinc | 48.98 | 2.20E-04 | | 75.70 | 3.41E-04 | |
| VOLATILE ORGANICS | | | | | | |
| Acetone | 0.18 | 1.63E-06 | | 0.82 | 7.38E-06 | |
| 2-Hexanone | 0.22 | | | 1.10 | | |
| Methylene Chloride | 0.02 | 4.32E-07 | 7.20E-11 | 0.08 | 1.51E-06 | 2.52E-10 |
| Toluene | 0.03 | 1.35E-07 | | 0.09 | 4.10E-07 | |
| Xylenes | 0.03 | 1.35E-08 | | 0.14 | 6.30E-08 | |
| SEMIVOLATILE ORGANICS | | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.63 | 2.81E-05 | 3.50E-09 | 2.40 | 1.08E-04 | 1.34E-08 |
| | Results based on me | ean values | 1 | Results based on m | aximum values | |
| Hazard Index (HI): (Combined Exposure) (d) | i | 2.27E-02 | | I | 4.45E-02 |] |
| Excess Lifetime Cancer Risk: (Combined Exposure) (d) | • | 1 | 7.57E-06 | | | 1.62E-0 |

RfD = Reference Dose; Cancer Slope Factor = Cancer Potency Factor (q1°).
(a) Arithmetic mean of the surface soil concentrations obtained from 1990 and 1991 sampling data sets for top 2 feet of soil.

⁽b) Maximum surface soil concentrations obtained from 1990 and 1991 sampling data sets for top 2 feet of soil.

⁽c) Average daily intake calculated assuming exposure to mean and maximum concentrations of chemicals in surface soil through ingestion. Exposure Assumptions: Inadvertent ingestion by Base personnel of 0.1 gms of soil/day, 1 day/week, 52 days/year, for 30 years of a 70-year lifetime. All ingested chemicals are assumed to be 100% bioavailable.

⁽d) Risk estimates for combined exposure to maximum concentrations are for illustrative purposes only. Risk characterization for lead is based on an earlier EPA reference dose of 0.0014 mg/kg/day (SPHEM 1986).

Table 4-8. Risk Characterization for Site 3 - Hazardous Waste Collection Area Dermal Exposure of Base Personnel to Surficial Soil Contaminants 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| Chemical | Mean (a) Concentrations in Surface Soil (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1*) | Maximum (b) Concentrations in Surface Soil (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1°) |
|---------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|
| INORGANICS | | | | | | · · · · · · · · · · · · · · · · · · · |
| Arsenic | 9.60 | 3.84E-03 | 1.68E-06 | 20.70 | 8.28E-03 | 3.62E-06 |
| Beryllium | 0.49 | 3.92E-05 | 2.11E-07 | 0.98 | 7.84E-05 | 4.21E-07 |
| Cadmium | 0.58 | 4.64E-04 | | 1.80 | 1.44E-03 | |
| Chromium | 7.18 | 5.74E-04 | | 11.70 | 9.36E-04 | |
| Copper | 24.16 | 2.61E-04 | | 31.40 | 3.39E-04 | |
| Lead | 10.62 | 3:03E-03 | | 16.30 | 4.66E-03 | |
| Mercury | 0.02 | 2.67E-05 | | 0.03 | 4.00E-05 | |
| Nickel | 13.12 | 2.62E-04 | | 24.10 | 4.82E-04 | |
| Thallium | 0.26 | 1.49E-03 | | 0.58 | 3.31E-03 | |
| Zinc | 48.98 | 9.80E-05 | | 75.70 | 1.51E-04 | |
| VOLATILE ORGANICS | | | | | | |
| Acetone | 0.18 | 1.99E-05 | | 0.82 | 9.02E-05 | |
| 2-Hexanone | 0.22 | | | 1.10 | | |
| Methylene Chloride | 0.02 | 5.28E-06 | 8.46E-10 | 0.08 | 1.85E-05 | 6.35E-08 |
| Toluene | 0.03 | 1.65E-06 | | 0.09 | 5.01E-06 | |
| Xylenes | 0.03 | 1.65E-07 | | 0.14 | 7.70E-07 | |
| SEMIVOLATILE ORGANICS | | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.63 | 3.44E-04 | 4.11E-08 | 2.40 | 1.32E-03 | 3.82E-08 |
| | Results based on me | ean values | 1 | Results based on ma | aximum values | |
| Hazard Index (HI): (Combined Exposure) (d) | 1 | 1.05E-02 | | 1 | 2.12E-02 |) |
| Excess Lifetime Cancer Risk: (Combined Exposure) (d) | | I | 1.93E-06 | | | 4.15E-06 |

RfD = Reference Dose; Cancer Slope Factor = Cancer Potency Factor (q1*).

⁽a) Arithmetic mean of the surface soil concentrations obtained from 1990 and 1991 sampling data sets for top 2 feet of soil.

⁽b) Maximum surface soil concentrations obtained from 1990 and 1991 sampling data sets for top 2 feet of soil.

⁽c) Dermal exposure dose was calculated assuming exposure to mean and maximum concentrations of chemicals in surface soil.

Exposure Assumptions: Incidental dermal exposure by Base personnel of 0.1 gms of soil for 1 day/week, 52 days/year, for 30 years of a 70—year lifetime. Surface area of arms and hands, and soil adherence factor were adopted from RAGS 1989. Availability of organic and metallic compounds were approximated at 25% and 1% of the organic and metal concentrations, respectively.

⁽d) Risk estimates for combined exposure to maximum concentrations are for illustrative purposes only. Risk characterization for dermal exposure to lead is based on an earlier EPA oral reference dose of 0.0014 mg/kg/day (SPHEM 1986).

contaminant chemicals detected at the site. Cancer and noncancer risk estimates for combined exposure to all of the chemicals for a single pathway in the soil (i.e., ingestion or dermal contact) and combined across pathways (i.e., for simultaneous ingestion and dermal exposure) are within the acceptable range.

Based on estimated HIs for combined exposure to all of the contaminants at the site, no adverse noncarcinogenic effects would be anticipated for exposure of onsite workers and personnel to chemicals in the top 0 to 2 feet of soil at Sites 1 and 3. Combined estimates of excess lifetime cancer risk for ingestion and dermal exposure are within the acceptable range of 10^{-6} to 10^{-5} . It is important to recognize the relative nature of risk estimate as a function of the assumptions adopted in the exposure assessment.

4.5.4 Risk Characterization for Future Land Use Scenarios

Public health risks based on future land-uses at this site consider (a) limited occupational exposures of construction workers (Section 4.5.4.1), and (b) future commercial exposures to the onsite soil (Section 4.5.4.2).

4.5.4.1 Risk Characterization for Construction Scenario

Tables 4-9 and 4-11 and Tables 4-10 and 4-12 summarize the potential risks to construction workers for ingestion exposure and dermal contact, respectively. Results of risk characterization presented in Tables 4-9 through 4-12 indicate that both noncancer and cancer risk estimates fall within EPA's acceptable range for waste site remediation. This is true for risk estimates derived for both weighted arithmetic mean and maximum concentrations of contaminant chemicals detected in the soil. Similarly, cancer and noncancer risks for combined exposure to all of the chemicals for a single pathway in the soil (i.e., ingestion or dermal contact) and combined across pathways (i.e., for simultaneous ingestion and dermal exposure) are within the acceptable range.

Based on estimated HIs for combined exposure to all of the contaminants at the site, it is anticipated that no adverse noncarcinogenic effects would result from limited exposure of construction workers to chemicals in the 0- to 10-foot soil column at Sites 1 and 3. Likewise,

Table 4-9. Risk Characterization for Site 1 - Former Fire Training Area Ingestion Exposure of Onsite Construction Workers to Subsurface Soil Contaminants 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| Chemical | Mean (a) Concentrations in Subsurface Soil (0-10 ft) (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1*) | Maximum (a) Concentrations in Subsurface Soil (0-10 ft) (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1*) |
|---------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|
| INORGANICS | | | | | | |
| Antimony | 2.31 | 5.20E-03 | | 5.20 | 1.17E-02 | |
| Arsenic | 8.06 | 7.25E-03 | 1.97E-07 | 12.60 | 1.13E-02 | 3.09E-0 |
| Beryllium | 0.64 | 1.15E-04 | 3.85E-08 | 1.70 | 3.06E-04 | 1.02E-0 |
| Cadmium | 0.64 | 1.15E-03 | | 1.20 | 2.16E-03 | |
| Chromium | 14.85 | 2.67E-03 | | 20.30 | 3.65E-03 | |
| Copper | 22.27 | 5.42E-04 | | 34.60 | 8.42E-04 | |
| ead | 19.83 | 1.27E-02 | | 34.10 | 2.19E-02 | |
| Nickel | 23.39 | 1.05E-03 | | 36.50 | 1.64E-03 | |
| Thallium | 0.31 | 3.99E-05 | | 0.55 | 7.07E-05 | |
| Zinc | 64.46 | 2.90E-04 | | 116.00 | 5.22E-04 | |
| VOLATILE ORGANICS | | | | | | |
| Acetone | 0.06 | 5.40E-07 | | 0.19 | 1.71E-06 | |
| Toluene | 0.113 | 5.09E-07 | | 0.27 | 1.22E-06 | |
| SEMIVOLATILE ORGANICS | | | | | | |
| Acenaphthene | 0.308 | | | 1.15 | | |
| Anthracene | 0.271 | 8.13E-07 | | 1.15 | 3.45E-06 | |
| Carbazole | 0.281 | | | 1.15 | | |
| Chrysene | 0.285 | 6.41E-05 | 2.02E-10 | 1.15 | 2.59E-04 | 8.15E-1 |
| Benzo[a]anthracene | 0.392 | 8.82E-05 | 9.16E-09 | 1.40 | 3.15E-04 | 3.27E-0 |
| Benzo[a]pyrene | 0.504 | 1.13E-04 | 8.11E - 08 | 1.50 | 3.38E-04 | 2.42E-0 |
| Benzo[b]fluoranthene | 0.277 | 6.23E-05 | 6.24E-09 | 1.15 | 2.59E-04 | 2.59E-0 |
| Dibenzofuran | 0.521 | 4.69E-04 | | 1.70 | 1.53E-03 | |
| Fluoranthene | 0.332 | | | 1.15 | | |
| Fluorene | 0.331 | 7.45E-05 | | 1.15 | | |
| Pentachlorophenol | 2.150 | | | 13.00 | | 2.18E-0 |
| Phenanthrene | 0.543 | | | 1.30 | 2.93E-04 | |
| Pyrene | 0.362 | | | 1.15 | 2.59E-04 | 1.50E-0 |
| indeno[1,2,3-cd]pyrene | 0.326 | 9.78E-06 | 1.19E-09 | 1.15 | 3.45E-05 | 4.19E-0 |
| | | Results based on m | ean values | | Results based on m | aximum values |
| Hazard Index (HI): (Combined Exposure) (d) | | 3.22E-02 |] | | 5.82E-02 | |
| Excess Lifetime Cancer Risk: (Combined Exposure) (d) | | | 1.06E-07 | | İ | 3.42E-0 |

RfD = Reference Dose; Cancer Slope Factor = Cancer Potency Factor (q1*).

⁽a) Arithmetic mean of the surface soil concentrations obtained from 1990 and 1991 subsurface soil sampling data sets for 0-10 feet soil bore samples.

⁽b) Maximum surface soil concentrations obtained from 1990 and 1991 sampling data sets for 0-10 feet soil bore samples.

⁽c) Average daily intake calculated assuming exposure to mean and maximum concentrations of chemicals in subsurface soil through ingestion. Exposure Assumptions: Accidental ingestion by onsite workers of 0.1 gms of soil for 5 days/week, 250 days/year, for 1 year of a 70—year lifetime. All ingested chemicals are assumed to be 100% bioavailable.

⁽d) Risk estimates for combined exposure to maximum concentrations are for illustrative purposes only. Risk characterization for lead is based on an earlier EPA reference dose of 0.0014 mg/kg/day (SPHEM 1986).

Table 4-10. Risk Characterization for Site 1 - Former Fire Training Area Dermal Exposure of Onsite Construction Workers to Subsurface Soil Contaminants 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| INORGANICS Antimony Arsenic Beryllium Cadmium Chromium Copper Lead Nickel Thallium Zinc VOLATILE ORGANICS Acetone Toluene SEMIVOLATILE ORGANICS Acenaphthene Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene Indeno[1,2,3-cd]pyrene | 2.31 8.06 0.64 14.85 22.27 19.83 23.39 0.31 64.46 0.06 0.113 | 2.31E - 03 3.22E - 03 5.12E - 05 5.12E - 04 1.19E - 03 2.41E - 04 5.67E - 03 4.68E - 04 1.77E - 05 1.29E - 04 | 1.73E - 08 | - 5.2 12.6 1.7 1.2 20.3 34.6 34.1 36.5 0.55 116 | 5.20E-03 5.04E-03 1.36E-04 9.60E-04 1.62E-03 3.74E-04 9.74E-03 7.30E-04 3.14E-05 2.32E-04 | 1.39E-0 4.61E-0 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------|
| Arsenic Beryllium Cadmium Chromium Chromium Copper Lead Nickel Thallium Zinc VOLATILE ORGANICS Acetone Toluene SEMIVOLATILE ORGANICS Acetaphthene Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 8.06 0.64 14.85 22.27 19.83 23.39 0.31 64.46 0.06 0.113 | 3.22E-03 5.12E-05 5.12E-04 1.19E-03 2.41E-04 5.67E-03 4.68E-04 1.77E-05 1.29E-04 6.60E-06 6.22E-06 | 1.73E - 08 | 12.6 1.7 1.2 20.3 34.6 34.1 36.5 0.55 116 | 5.04E-03 1.36E-04 9.60E-04 1.62E-03 3.74E-04 9.74E-03 7.30E-04 3.14E-05 2.32E-04 | |
| Arsenic Beryllium Cadmium Chromium Chromium Copper Lead Nickel Thallium Zinc VOLATILE ORGANICS Acetone Toluene SEMIVOLATILE ORGANICS Acetaphthene Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.64 0.64 14.85 22.27 19.83 23.39 0.31 64.46 0.06 0.113 | 5.12E-05 5.12E-04 1.19E-03 2.41E-04 5.67E-03 4.68E-04 1.77E-05 1.29E-04 | 1.73E - 08 | 1.7 1.2 20.3 34.6 34.1 36.5 0.55 116 | 1.36E-04 9.60E-04 1.62E-03 3.74E-04 9.74E-03 7.30E-04 3.14E-05 2.32E-04 | |
| Beryllium Cadmium Chromium Copper Lead Nickel Thallium Zinc VOLATILE ORGANICS Acetone Toluene SEMIVOLATILE ORGANICS Acenaphthene Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.64 14.85 22.27 19.83 23.39 0.31 64.46 0.06 0.113 | 5.12E-04 1.19E-03 2.41E-04 5.67E-03 4.68E-04 1.77E-05 1.29E-04 6.60E-06 6.22E-06 | | 1.2 20.3 34.6 34.1 36.5 0.55 116 | 9.60E-04 1.62E-03 3.74E-04 9.74E-03 7.30E-04 3.14E-05 2.32E-04 | 4.61E-0 |
| Cadmium Chromium Copper Lead Nickel Thallium Zinc VOLATILE ORGANICS Acetone Toluene SEMIVOLATILE ORGANICS Acenaphthene Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.64 14.85 22.27 19.83 23.39 0.31 64.46 0.06 0.113 | 5.12E-04 1.19E-03 2.41E-04 5.67E-03 4.68E-04 1.77E-05 1.29E-04 6.60E-06 6.22E-06 | | 1.2 20.3 34.6 34.1 36.5 0.55 116 | 9.60E-04 1.62E-03 3.74E-04 9.74E-03 7.30E-04 3.14E-05 2.32E-04 | |
| Chromium Copper Lead Nickel Thallium Zinc VOLATILE ORGANICS Acetone Toluene SEMIVOLATILE ORGANICS Acenaphthene Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 14.85 22.27 19.83 23.39 0.31 64.46 0.06 0.113 | 1.19E-03 2.41E-04 5.67E-03 4.68E-04 1.77E-05 1.29E-04 | | 20.3 34.6 34.1 36.5 0.55 116 | 1.62E-03 3.74E-04 9.74E-03 7.30E-04 3.14E-05 2.32F-04 | |
| Copper Lead Nickel Thallium Zinc VOLATILE ORGANICS Acetone Toluene SEMIVOLATILE ORGANICS Acenaphthene Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 22.27 19.83 23.39 0.31 64.46 0.06 0.113 | 2.41E-04 5.67E-03 4.68E-04 1.77E-05 1.29E-04 6.60E-06 6.22E-06 | | 34.6 34.1 36.5 0.55 116 | 3.74E-04 9.74E-03 7.30E-04 3.14E-05 2.32E-04 | |
| Lead Nickel Thallium Zinc VOLATILE ORGANICS Acetone Toluene SEMIVOLATILE ORGANICS Acenaphthene Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 19.83 23.39 0.31 64.46 0.06 0.113 | 5.67E-03 4.68E-04 1.77E-05 1.29E-04 6.60E-06 6.22E-06 | | 34.1 36.5 0.55 116 | 9.74E-03 7.30E-04 3.14E-05 2.32E-04 | |
| Nickel Thallium Zinc VOLATILE ORGANICS Acetone Toluene SEMIVOLATILE ORGANICS Acenaphthene Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 23.39 0.31 64.46 0.06 0.113 | 4.68E-04 1.77E-05 1.29E-04 6.60E-06 6.22E-06 | | 36.5 0.55 116 | 7.30E-04 3.14E-05 2.32E-04 2.09E-05 | |
| Thallium Zinc VOLATILE ORGANICS Acetone Toluene SEMIVOLATILE ORGANICS Acenaphthene Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.31 64.46 0.06 0.113 | 1.77E-05 1.29E-04 6.60E-06 6.22E-06 | | 0.55 116 0.19 | 3.14E-05 2.32E-04 2.09E-05 | |
| Zinc VOLATILE ORGANICS Acetone Toluene SEMIVOLATILE ORGANICS Acenaphthene Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.06 0.113 | 1.29E-04 6.60E-06 6.22E-06 | | 0.19 | 2.32F - 04 2.09E - 05 | |
| VOLATILE ORGANICS Acetone Toluene SEMIVOLATILE ORGANICS Acenaphthene Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.06 0.113 0.308 | 6.60E - 06 6.22E - 06 | | 0.19 | 2.09E-05 | |
| Acetone Toluene SEMIVOLATILE ORGANICS Acenaphthene Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.113 | 6.22E-06 | | | | |
| Foluene SEMIVOLATILE ORGANICS Acenaphthene Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.113 | 6.22E-06 | | | | |
| Acenaphthene Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.308 | | | 0.27 | 1.49E-05 | |
| Acenaphthene Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Pentachlorophenol Phenanthrene Pyrene | | 5.65E-05 | | | | |
| Anthracene Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | | 5.65E-05 | | | | |
| Carbazole Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | | | | 1.15 | 2.11E-04 | |
| Chrysene Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.271 | 9.94E-06 | | 1.15 | 4.22E-05 | |
| Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.281 | | | 1.15 | | |
| Benzo[a]anthracene Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.285 | 7.84E-04 | 1.44E-09 | 1.15 | 3.16E-03 | 5.82E-0 |
| Benzo[a]pyrene Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.392 | 1.08E-03 | 6.55E-08 | 1.40 | 3.85E-03 | 2.34E-0 |
| Benzo[b]fluoranthene Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.504 | 1.39E-03 | | 1.50 | 4.13E-03 | 1.73E-C |
| Dibenzofuran Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.277 | 7.62E-04 | | 1.15 | 3.16E-03 | 1.85E-0 |
| Fluoranthene Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.521 | 5.73E-03 | | 1.70 | .87E-02 | |
| Fluorene Pentachlorophenol Phenanthrene Pyrene | 0.332 | 9.13E-05 | | 1.15 | 3.16E-04 | |
| Pentachlorophenol Phenanthrene Pyrene | 0.332 | 9.10E-04 | | 1.15 | 3.16E-03 | |
| Phenanthrene Pyrene | 2.150 | 7.93E-04 | | 13.00 | 4.80E-03 | 2.47E-0 |
| Pyrene | 0.543 | 1.49E-03 | | 1.30 | 3.58E-03 | M-71E−0 |
| • | 0.343 0.362 | 9.96E-04 | 3.37E-08 | 1.30 | 3.16E-03 | 1.07E-0 |
| maeno(1,4,4) – calpyrene | | | | | | 2.99E-0 |
| | 0.326 | 1.20E-04 | 8.48E-09 | 1.15 | 4.22E-04 | ムカメピーリ |
| | | Results based on m | ean values | | Results based on ma | aximum values |
| Hazard Index (HI): | | 2.80E-02 | 1 | | 7.28E-02 | <u>'</u> |
| (Combined Exposure) (d) | | 2.00L-02 | • | | | , |
| Excess Lifetime Cancer Risk: (Combined Exposure) (d) | | 2.002 -02 | • | | | • |

RfD = Reference Dose; Cancer Slope Factor = Cancer Potency Factor (q1*).

(b) Maximum surface soil concentrations obtained from 1990 and 1991 sampling data sets for 0-10 feet soil bore samples.

⁽a) Arithmetic mean of the surface soil concentrations obtained from 1990 and 1991 subsurface soil sampling data sets for 0-10 feet soil bore samples.

⁽c) Dermal exposure dose was calculated assuming exposure to mean and maximum concentrations of chemicals in subsurface soil through ingestion.

Exposure Assumptions: Incidental dermal exposure by onsite workers of 0.1 gms of soil for 5 days/week, 250 days/year, for 1 year of a 70—year lifetime. Surface a: ea of arms and hands, and soil adherence factor were adopted from RAGS 1989. Availability of organic and metallic compounds were approximated at 25% and 1% of the organic and metal concentrations, respectively.

⁽d) Risk estimates for combined exposure to maximum concentrations are for illustrative purposes only. Risk characterization for dermal exposure to lead is based on an earlier EPA oral reference dose of 0.0014 mg/kg/day (SPHEM 1986).

Table 4-11. Risk Characterization for Site 3 - Hazardous Waste Collection Area Ingestion Exposure of Onsite Construction Workers to Subsurface Soil Contaminants 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| Chemical | Mean (a) Concentrations in Subsurface Soil (0-10 feet) (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x qi*) | Maximum (b) Concentrations in Subsurface Soil (0-10 feet) (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1*) |
|---------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|
| INORGANICS | | | | | | |
| Arsenic | 9.60 | 8.64E-03 | 2.35E-07 | 20.70 | 1.86E-02 | 5.07E-07 |
| Beryllium | 0.49 | 8.82E-05 | 2.95E-08 | 0.98 | 1.76E-04 | 5.90E-08 |
| Cadmium | 0.58 | 1.04E-03 | | 1.80 | 3.24E-03 | |
| Chromium | 7.18 | 1.29E-03 | | 11.70 | 2.11E-03 | |
| Copper | 24.16 | 5.88E-04 | | 31.40 | 7.64E-04 | |
| Lead | 10.62 | 6.83E-03 | | 16.30 | 1.05E-02 | |
| Mercury | 0.02 | 6.00E-05 | | 0.03 | 9.00E-05 | |
| Nickel | 13.12 | 5.90E-04 | | 24.10 | 1.08E-03 | |
| Thallium | 0.26 | 3.34E-03 | | 0.58 | 7.46E-03 | |
| Zinc | 48.98 | 2.20E-04 | | 75.70 | 3.41E-04 | |
| VOLATILE ORGANICS | | | | | | |
| Acetone | 0.15 | 1.37E-06 | | 0.82 | 7.38E-06 | |
| Benzene | 0.00 | | 1.62E-12 | 0.01 | | 3.65E-12 |
| Ethylbenzene | 0.01 | 6.30E-08 | | 0.02 | | |
| 2-Hexanone | 0.19 | | | 1.10 | | |
| Methylene Chloride | 0.02 | 3.60E-07 | 2.10E-12 | 0.08 | 1.51E-06 | 8.82E-12 |
| 4-Methyl-2-pentanone | 0.01 | 2.52E-07 | | 0.03 | 1-12 00 | V.U.L. |
| Toluene | 0.03 | 1.44E-07 | | 0.09 | 4.10E-07 | |
| Xylenes | 0.06 | 2.57E-08 | | 0.19 | 8.55E-08 | |
| SEMIVOLATILE ORGANICS | | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.56 | 2.50E-05 | 1.09E-10 | 2.40 | 1.08E-04 | 4.70E-10 |
| | Results based on me | ean values | : | Results based on ma | aximum values | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Hazard Index (HI): (Combined Exposure) (d) | 1 | 2.27E-02 | | . [| 4.45E-02 |] |
| Excess Lifetime Cancer Risk: (Combined Exposure) (d) | | ł | 1.13E-10 | I | | 4.83E-10 |

RfD = Reference Dose; Cancer Slope Factor = Cancer Potency Factor (q1*).

(a) Arithmetic mean of the surface soil concentrations obtained from 1990 and 1991 subsurface soil sampling data sets for 0-10 feet soil bore samples.

⁽b) Maximum surface soil concentrations obtained from 1990 and 1991 sampling data sets for 0-10 feet soil bore samples.

⁽c) Average daily intake calculated assuming exposure to mean and maximum concentrations of chemicals in subsurface soil through ingestion. Exposure Assumptions: Accidental ingestion by onsite workers of 0.1 gms of soil for 5 days/week, 250 days/year, for 1 year of a 70-year lifetime. All ingested chemicals are assumed to be 100% bioavailable.

⁽d) Risk estimates for combined exposure to maximum concentrations are for illustrative purposes only. Risk characterization for lead is based on an earlier EPA reference dose of 0.0014 mg/kg/day (SPHEM 1986).

Table 4-12. Risk Characterization for Site 3 - Hazardous Waste Collection Area Dermal Exposure of Onsite Construction Workers to Subsurface Soil Contaminants 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| Chemical | Mean (a) Concentrations in Subsurface Soil (0-10 feet) (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1°) | Maximum (b) Concentrations in Subsurface Soil (0-10 feet) (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RID) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1°) |
|---------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|
| INORGANICS | | | | | | |
| Arsenic | 9.60 | 3.84E-03 | 1.06E-07 | 20.70 | 8.28E-03 | 2.28E-0 |
| Beryllium | 0.49 | 3.92E-05 | 1.33E-08 | 0.98 | 7.84E05 | 2.65E-0 |
| Cadmium | 0.58 | 4.64E-04 | | 1.80 | 1.44E-03 | |
| Chromium | 7.18 | 5.74E-04 | | 11.70 | 9.36E-04 | |
| Copper | 24.16 | 2.61E-04 | | 31.40 | 3.39E04 | |
| Lead | 10.62 | 3.03E-03 | | 16.30 | 4.66E-03 | |
| Mercury | 0.02 | 2.67E-05 | | 0.03 | 4.00E-05 | |
| Nickel | 13.12 | 2.62E-04 | | 24.10 | 4.82E-04 | |
| Thallium | 0.26 | 1.49E-03 | | 0.58 | 3.31E-03 | |
| Zinc | 48.98 | 9.80E-05 | | 75.70 | 1.51E-04 | |
| VOLATILE ORGANICS | | | | | | |
| Acetone | 0.15 | 1.67E-05 | | 0.82 | 9.02E-05 | |
| Benzene | 0.00 | | 1.16E-11 | 0.01 | | 2.61E-1 |
| Ethylbenzene | 0.01 | 7.70E-07 | | 0.02 | | |
| 2-Hexanone | 0.19 | | | 1.10 | | |
| Methylene Chloride | 0.02 | 4.40E-06 | 1.50E-11 | 0.08 | 1.85E-05 | 6.30E-1 |
| 4-Methyl-2-pentanone | 0.01 | 3.08E-06 | | 0.03 | | |
| Toluene | 0.03 | 1.76E-06 | | 0.09 | 5.01E-06 | |
| Xyienes | 0.06 | 3.14E-07 | | 0.19 | 1.05E-06 | |
| SEMIVOLATILE ORGANICS | | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.56 | 3.05E-04 | 7.77E-10 | 2.40 | 1.32E-03 | 3.36E-0 |
| | Results based on me | an values | | Results based on ma | eximum values | |
| Hazard Index (HI): (Combined Exposure) (d) |] | 1.04E-02 | | ľ | 2.12E-02 |] |
| Excess Lifetime Cancer Risk: (Combined Exposure) (d) | | [| 8.0 E-10 | ı | | 3.45E-0 |

RfD = Reference Dose; Cancer Slope Factor = Cancer Potency Factor (q1*).

⁽a) Arithmetic mean of the surface soil concentrations obtained from 1990 and 1991 subsurface soil sampling data sets for 0-10 feet soil bore samples.

⁽b) Maximum surface soil concentrations obtained from 1990 and 1991 sampling data sets for 0-10 feet soil bore samples.

⁽c) Dermal exposure dose was calculated assuming exposure to mean and maximum concentrations of chemicals in subsurface soil through ingestion.

Exposure Assumptions: Incidental dermal exposure by onsite workers of 0.1 gms of soil for 5 days/week, 250 days/year, for 1 year of a 70—year lifetime. Surface area of arms and hands, and soil adhearence factor were adopted from RAGS 1989. Availability of organic and metallic compounds were approximated at 25% and 1% of the organic and metal concentrations, respectively.

⁽d) Risk estimates for combined exposure to maximum concentrations are for illustrative purposes only. Risk characterization for dermal exposure to lead is based on an earlier EPA oral reference dose of 0.0014 mg/kg/day (SPHEM 1986).

combined estimates of excess lifetime cancer risk for ingestion and dermal exposure are within the acceptable range of 10⁻⁶ to 10⁻⁵. Since there are no definitive future land-use plans at Sites 1 and 3, the estimated risks for the construction workers exposure scenario is only for illustrative purposes to assess potential future human health risks.

4.5.4.2 Risk Characterization for Commercial Exposures

Tables 4-13 and 4-14 and Tables 4-15 and 4-16 summarize the potential risks to commercial exposures for soil ingestion and dermal contact, respectively. Results of risk characterization presented in Tables 4-13 through 4-16 indicate that both noncancer and cancer risk estimates fall within EPA's acceptable range for waste site remediation. This is true for risk estimates derived for both weighted arithmetic mean and maximum concentrations of contaminant chemicals detected in the soil. Similarly, cancer and noncancer risks for combined exposure to all of the chemicals for a single pathway in the soil (i.e., ingestion or dermal contact) and combined across pathways (i.e., for simultaneous ingestion and dermal exposure) are within the acceptable range.

Based on estimated HIs for combined exposure to all of the contaminants at the site, it is anticipated that no adverse noncarcinogenic effects would result from limited exposure to chemicals in the 0- to 10-foot soil column at Sites 1 and 3. Likewise, combined estimates of excess lifetime cancer risk for ingestion and dermal exposure are within the acceptable range of 10^{-6} to 10^{-4} . Since there are no definitive future land-use plans at Sites 1 and 3, public health risk evaluation for commercial exposure scenarios are based solely on projected future land uses.

4.6 UNCERTAINTY EVALUATION

It is essential to recognize the uncertainties inherent in quantitative health risk evaluation. This section on uncertainty evaluation briefly describes the sources of uncertainty in the preliminary public health risk evaluation of the Indiana ANG waste sites, and the relative influence of these sources on the overall health risk evaluation.

The quantitative risk evaluation process introduces uncertainties in the selection or derivation of key input parameters in the hazard assessment, exposure evaluation, and toxicity

Table 4—13. Risk Characterization for Site 1 – Former Fire Training Area Ingestion Exposure of Commercial Community to Subsurface Soil Contaminants 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| Chemical | Mean (a) Concentrations in Subsurface Soil (0–10 ft) (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1*) | Maximum (a) Concentrations in Subsurface Soil (0-10 ft) (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1*) |
|----------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|
| PHORGANICS | - " | · · · · · · · · · · · · · · · · · · · | | | | |
| Antimony | 2.31 | 2.8E-03 | | 5.20 | 6.37E-03 | |
| Arsenic | 8.06 | 3.9E-03 | 2.4E-06 | 12.60 | 6.17E-03 | 3.75E-0 |
| Beryllium | 0.64 | 6.3E-05 | 4.7E-07 | 1.70 | 1.67E-04 | 1.24E-0 |
| Cadmium | 0.64 | 6.3E-04 | | 1.20 | 1.18E-03 | |
| Chromium | 14.85 | 1.5E-03 | | 20.30 | 1.99E-03 | |
| Copper | 22.27 | 2.9E-04 | | 34.60 | 4.58E-04 | |
| Lead | 19.83 | 6.9E-03 | | 34.10 | 1.19E-02 | |
| Vickel | 23.39 | 5.7E-04 | | 36,50 | 8.94E-04 | |
| Challium | 0.31 | 2.2E-05 | | 0.55 | 3.85E-05 | |
| Zinc | 64.46 | 1.6E-04 | | 116.00 | 2.84E-04 | |
| VOLATILE ORGANICS | | | | | | |
| Acetone | 0.06 | 2.9E-07 | | 0.19 | 9.31E-07 | |
| Colucae | 0.113 | 2.8E-07 | | 0.27 | 6.61E-07 | |
| SEMIVOLATILE ORGANICS | | | | | | |
| Acenaphthene | 0.308 | 2.5E-06 | | 1.15 | 9.39E-06 | |
| Anthracene | 0.271 | 4.4E-07 | | 1.15 | 1.88E-06 | |
| Carbazole | 0.281 | NA | | 1.15 | NA | |
| Chrysene | 0.285 | 3.5E-05 | 2.5E-09 | 1.15 | 1.41E-04 | 9. 89 E-0 |
| lenzo[a]anthracene | 0.392 | 4.8E-05 | 1.1E-07 | 1.40 | 1.71E-04 | 3.97E-0 |
| lenzo(a)pyrene | 0.504 | 6.2E-05 | 9.9E-07 | 1.50 | 1.84E-04 | 2.93E-0 |
| lenzo[b]fluoranthene | 0.277 | 3.4E-05 | 7.6E-08 | 1.15 | 1.41E-04 | 3.15E-0 |
| Dibenzofuran | 0.521 | 2.6E-04 | | 1.70 | 8.33E-04 | |
| Puoranthene | 0.332 | 4.1E-06 | | 1.15 | 1.41E-05 | |
| luorrene | 0.331 | 4.1E-05 | | 1.15 | 1.41E-04 | |
| Pentachlorophenol | 2.150 | 3.5E-05 | 4.4E-08 | 13.00 | 2.12E-04 | 2.65E-0 |
| henanthrene | 0.543 | 6.7E-05 | | 1.30 | 1.59E-04 | |
| Рутеве | 0.362 | 4.4E-05 | 5.7E-08 | 1.15 | 1.41E-04 | 1. \$2 E-0 |
| indeno[1,2,3-cd]pyrene | 0.326 | 5.3E-06 | 1.4E-08 | 1.15 | 1.88E-05 | 5.08E-0 |
| Hazard Index (HI): (Combined Exposure)(d) | 1 | 1.75E-02 | | ſ | 3.17E-02 | |
| Excess Lifetime Cancer Risk: | · | | 4.16E-06 | • | 1 | 9.14E-0 |
| sicess i identitae i intert e 1961 | | | 7.10E-U0 | | | 7.14E~V |

RfD = Reference Dose; Cancer Slope Factor = Cancer Potency Factor (q1*).

⁽a) Arithmetic mean of the surface soil concentrations obtained from 1990 and 1991 subsurface soil sampling data sets for for 1 - 10 feet soil bore samples.

⁽b) Maximum surface soil concentrations obtained from 1990 and 1991 sampling data sets for 0-10 feet soil bore samples.

⁽c) Dermal exposure dose was calculated assuming exposure to mean and maximum concentrations of chemical in subsurface soil by ingestion. Exposure assumptions Exposure assumptions for commercial accentrios: Public and ensite workers exposures via incidental ingestion of 50 mg/day, for 250 days/year, for 25 years of a 70-year lifetime.

⁽d) Risk estimates for combined exposure to maximum concentrations are for illustrative purposes only. Risk characterization for dermal exposure to lead is based on an earlier EPA oral reference dose of 0.0014 mg/kg/day (SPHEM, 1986).

Table 4--14. Risk Characterization for Site 1 - Former Fire Training Area Dermal Exposure of Commercial Community to Subsurface Soil Contaminants 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| Chemical | Mean (a) Concentrations in Subsurface Soil (0-10 ft) (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1*) | Maximum (a) Concentrations in Subsurface Soil (0-10 ft) (mg/kg) | Hazard Quotient Noncareinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Rinks (c) (Intake x q1°) |
|------------------------------|--------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|
| INORGANICS | | | | | | |
| Antimony | 2.31 | 1.8E-03 | | 5.20 | 4.0E-03 | |
| Arrenic | 8.06 | 2.5E-03 | 1.6E-06 | 12.60 | 3.9E-03 | 2.4E-06 |
| Beryllium | 0.64 | 4.0E-05 | 3.0E-07 | 1.70 | 1.1E-04 | 8.0E-07 |
| Cadmium | 0.64 | 4.0E-04 | | 1.20 | 7.4E-04 | |
| Chromium | 14.85 | 9.2E-04 | | 20.30 | 1.3E-03 | |
| Copper | 22.27 | 1.9E-04 | | 34.60 | 2.9E-04 | |
| Lead | 19.83 | 4.4E-03 | | 34.10 | 7. 6E-0 3 | |
| Nickel | 23.39 | 3.6E-04 | | 36.50 | 5.7E-04 | |
| Thellium | 0.31 | 1.4E-05 | | 0.55 | 2.4E-05 | |
| Zinc | 64.46 | 1.0E-04 | | 116.00 | 1.8E-04 | |
| VOLATILE ORGANICS | | | | | | |
| Acetone | 0.06 | 4.6E-06 | | 0.19 | 1.4E-05 | |
| Toluene | 0.113 | 4.3E-06 | | 0.27 | 1.0E-05 | |
| SEMIVOLATILE ORGANICS | | | | | | |
| Acenaphthene | 0.308 | 3.9E-05 | | 1.15 | 1.5E-04 | |
| Anthracene | 0.271 | 6.9E-06 | | 1.15 | 2.9E-05 | |
| Carbazole | 0.281 | NA | | 1.15 | NA | |
| Chrysene | 0.285 | 5.4E-04 | 3.9E-08 | 1.15 | 2.2E-03 | 1.6E-0 |
| Benzo[a]anthracene | 0.392 | 7.4E-04 | 1.8E-06 | 1.40 | 2.7E-03 | 6.3E-0 |
| Benzo[a]pyrene | 0.504 | 9.6E-04 | 1.6E-05 | 1.50 | 2.9E-03 | 4.7E-0 |
| Senzo[b]fluoranthene | 0.277 | 5.3E-04 | 1.2E-06 | 1.15 | 2.2E-03 | 5.0E-0 |
| Dibenzofuran | 0.521 | 4.0E-03 | | 1.70 | 1.3E-02 | |
| Fluoranthene | 0.332 | 6.3E-05 | | 1.15 | 2.2E-04 | |
| Pluorrene | 0.331 | 6.3E-04 | | 1.15 | 2.2E-03 | |
| Pentachlorophenol | 2.150 | 5.4E-04 | 7.0E-07 | 13.00 | 3.3E-03 | 4.2E-0 |
| Phenanthrene | 0.543 | 1.0E-03 | | 1.30 | 2.5E-03 | |
| Pyrene | 0.362 | 6.9E-04 | 9.1E-07 | 1.15 | 2.2E-03 | 2.9E-0 |
| indeno[1,2,3-cd]pyrene | 0.326 | 8.3E-05 | 2.3 E-0 7 | 1.15 | 2.9 E-0 4 | 8.1E-0 |
| Hazard Index (HI): | | | | | | |
| (Combined Exposure)(d) | ĺ | 2.05E-02 | | [| 5.23E-02 | |
| Excess Lifetime Cancer Risk: | | г | 2.23E-05 | | 1 | 6.92E-0 |

RfD = Reference Dose; Cancer Slope Factor = Cancer Potency Factor (q1*). Since reference doses and cancer alope factors for dermal exposure are not available, oral reference dose and cancer potency factors were used in risk calculations.

⁽a) Arithmetic mean of the surface soil concentrations obtained from 1990 and 1991 subsurface soil sampling data sets for 1-10 feet soil bore samples.

⁽b) Maximum surface soil concentrations obtained from 1990 and 1991 sampling datrets for 0-10 feet soil bore samples.

⁽c) Dermal exposure dose was calculated assuming exposure to mean and maximum: accentrations of chemical in subsurface soil.

Exposure assumptions for commercial scenarios: Public and onsite workers exposures via incidental dermal contact to 1 mg/cm2 of soil for 250 days/yr, for 25 yrs of a 70-yr lifetime. Surface area of arms and hands, and soil adherence factors were obtained from RAGS 1989. Availability of organic and descriptions for the organic and metallic compounds, respectively.

⁽d) Risk estimates for combined exposure to maximum concentrations are for illustrative purposes only. Risk characterization for dermal exposure to lead is based on an earlier EPA oral reference dose of 0.0014 mg/kg/day (SPHEM, 1986).

Table 4—15. Risk Characterization for Site 3 - Hazardous Waste Collection Area Ingestion Exposure of Onsite Construction Workers to Subsurface Soil Contaminants 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| Chemical | Mean (a) Concentrations in Subsurface Soil (0-10 ft) (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1*) | Maximum (a) Concentrations in Subsurface Soil (0-10 ft) (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogonic Rinks (c) (Intake x q1*) |
|---------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|
| INORGANICS | | | | | | |
| Arrenic | 9.60 | 4.7E-03 | 2.9E-06 | 20.70 | 1.0E-02 | 6.2E-0 |
| Beryllium | 0.49 | 4.8E-05 | 3.6E-07 | 0.96 | 9.6E-05 | 7.2E-0 |
| Cadmium | 0.58 | 5.7E-04 | | 1.80 | 1. 8E-0 3 | |
| Chromium | 7.18 | 7.0E-04 | | 11.70 | 1.1 E-03 | |
| Copper | 24.16 | 3.2E-04 | | 31.40 | 4.2E-04 | |
| Lcad | 10.62 | 3.7E-03 | | 16.30 | 5.7E-03 | |
| Mercury | 0.02 | 3.3E-05 | | 0.03 | 4.9 E- 05 | |
| Nickel | 13.12 | 3.2E-04 | | 24.10 | 5.9E-04 | |
| Thellium | 0.26 | 1.8E-03 | | 0.58 | 4.1E-03 | |
| Zinc | 48.98 | 1.2E-04 | | 75.70 | 1.9E-04 | |
| VOLATILE ORGANICS | | | | | | |
| Acetone | 0.15 | 7.3E-07 | | 0.82 | 4.0E-06 | |
| Bonzone | 0.00 | | | 0.01 | | 4.9E-1 |
| Ethylbenzene | 0.01 | 4.9E-08 | | 0.02 | 9. 8E-08 | |
| 2-Hexanone | 0.19 | | | 1.10 | | |
| Methylene Chloride | 0.02 | 1.6 E-07 | 2.5E-11 | 0.08 | 6.9E-07 | 1.1 E -1 |
| 4-Methyl-2-pentanone | 0.01 | 9.8E-08 | | 0.03 | 2.9E-07 | |
| Toluene | 0.03 | 7.3E-08 | | 0.09 | 2.2 E-0 7 | |
| Xylenes | 0.06 | 1.5 E-08 | | 0.19 | 4.7E-08 | |
| SEMIVOLATILE ORGANICS | | | | | | |
| Bis(2-cthylhexyl)phthalate | 0.56 | 1.4E-05 | 1.3E-09 | 2.40 | 5.9 E-0 5 | 5.7E-0 |
| | Results based on mean | a values | | .! | Results based on maxis | num values |
| Hazard Index (HI): (Combined Exposure) (d) | . [| 1.24E-02 | | [| 2.42E-02 | |
| Excess Lifetime Cancer Risk: (Combined Exposure) (d) | | [| 1.36E-09 | | | 5.87E-0 |

RfD = Reference Dose; Cancer Slope Factor = Cancer Potency Factor (q1*).

⁽a) Arithmetic mean of the surface soil concentrations obtained from 1990 and 1991 subsurface soil sampling data sets for 1-10 feet soil bore samples.

⁽b) Maximum surface soil concentrations obtained from 1990 and 1991 sampling data sets for 0-10 feet soil bore samples.

⁽c) Dermal exposure dose was calculated assuming exposure to mean and maximum concentrations of chemical in subsurface soil by ingestion. Exposure assumptions for commercial accenarios: Public and onsite workers exposures via incidental ingestion of 50 mg/day, for for 250 days/year, for 25 years of a 70-year lifetime.

⁽d) Risk estimates for combined exposure to maximum concentrations are for illustrative purposes only. Risk characterization for dermal exposure to lead is based on an earlier EPA oral reference dose of 0.0014 mg/kg/day (SPHEM, 1986).

Table 4--16. Risk Characterization for Site 3 - Hazardous Waste Collection Area Dermal Exposure of Onsite Construction Workers to Subsurface Soil Contaminants 122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| Chemical | Mean (a) Concentrations in Subsurface Soil (0-10 ft) (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1*) | Maximum (a) Concentrations in Subsurface Soil (0-10 ft) (mg/kg) | Hazard Quotient Noncarcinogenic Effects (c) (Intake/RfD) | Excess Lifetime Carcinogenic Risks (c) (Intake x q1*) |
|---------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|
| INORGANICS | | <u> </u> | | | | |
| Arsonic | 9.60 | 3.0E-03 | 1.8E-06 | 20.70 | 6.4E-03 | 4.0E-06 |
| Beryllium | 0.49 | 3.0E-05 | 2.3E-07 | 0.98 | 6.1 E-0 5 | 4.6E-07 |
| Cadmium | 0.58 | 3.6E-04 | | 1.80 | 1.1 E-03 | |
| Chromium | 7.18 | 4.5E-04 | | 11.70 | 7.3E-04 | |
| Соррег | 24.16 | 2.0E-04 | | 31.40 | 2.6 E-0 4 | |
| ced | 10.62 | 2.4E-03 | | 16.30 | 3.6 E-0 3 | |
| Mercury | 0.02 | 2.1E-05 | | 0.03 | 3.1 E-0 5 | |
| Vic kel | 13.12 | 2.0E-04 | | 24.10 | 3.7E-04 | |
| Thallium | 0.26 | 1.2E-03 | | 0.58 | 2.6E-03 | |
| Line | 48.98 | 7.6E-05 | | 75.70 | 1.2E-04 | |
| VOLATILE ORGANICS | | | | | | |
| Acetone | 0.15 | 1.1E-05 | | 0.82 | 6.2E-05 | |
| Benzene | 0.00 | | | 0.01 | | 7. 8E -10 |
| Othy ibenzene | 0.01 | 7.6 E-0 7 | | 0.02 | 1.5E-06 | |
| -Hexanone | 0.19 | | | 1.10 | | |
| Methylene Chloride | 0.02 | 2.5E-06 | 4.0E-10 | 0.08 | 1.1 E-0 5 | 1.7E-09 |
| -Methyl-2-pentanone | 0.01 | 1.5E-06 | | 0.03 | 4.6 E-0 6 | |
| Coluene | 0.03 | 1.1 E-0 6 | | 0.09 | 3.5E-06 | |
| (yleacs | 0.06 | 2.3E-07 | | 0.19 | 7.2E-07 | |
| SEMIVOLATILE ORGANICS | | | | | | |
| Bis(2-ethylhexyl)phthalate | 0.56 | 2.1E-04 | 2.1 E-08 | 2.40 | 9.1E-04 | 9.1E-00 |
| | Results based on mean | a values | | | Results based on maxis | num values |
| lazard Index (HI): Combined Exposure) (d) | I | 8.05E-03 | | [| 1.63E-02 | |
| Excess Lifetime Cancer Risk: (Combined Exposure) (d) | | [| 2.10E-06 | | | 4.54E-06 |

RfD = Reference Dose; Cancer Slope Factor = Cancer Potency Factor (q1*). Since reference doses and cancer slope factors for dermal exposure are not available, oral reference dose and cancer potency factors were used in risk calculations.

⁽a) Arithmetic mean of the surface soil concentrations obtained from 1990 and 1991 subsurface soil sampling data sets for 1-10 feet soil bore samples.

⁽b) Maximum surface soil concentrations obtained from 1990 and 1991 sampling data sets for 0-10 feet soil bore samples.

⁽c) Dermal exposure dose was calculated assuming exposure to mean and maximum concentrations of chemical in subsurface soil.

Exposure assumptions for commercial scenarios: Public and onsite workers exposures via incidental dermal contact to 1 mg/cm2 of soil for 250 days/yr, for 25 yrs of a 70-yr lifetime. Surface area of arms and hands, and soil adherence factors were obtained from RAGS 1989. Availability of organic and defended and metallic compounds were approximated at 25% and 1% of the concentrations for the organic and metallic compounds, respectively.

⁽d) Risk estimates for combined exposure to maximum concentrations are for illustrative purposes only. Risk characterization for dermal exposure to lead is based on an earlier EPA oral reference dose of 0.0014 mg/kg/day (SPHEM, 1986).

characterization steps. Propagation of uncertainties at various steps may introduce considerable uncertainty in the final risk estimates. Therefore, the point estimates of risk obtained in preliminary evaluation of waste sites must be viewed with caution. A more realistic estimate of risk would be derived using a range of values for each input parameter corresponding to the range of projected uncertainty.

Given that the verified toxicity measures (i.e., RfDs and cancer slope factors) used in risk assessment are established by EPA, the greatest sources of uncertainty are the determination of exposure point concentrations, the development of exposure scenarios, and the derivation of long-term intake or dose estimates for the human receptors that are at greatest risk.

Input parameters used in the derivation of intake and dose estimates may introduce considerable uncertainty in the risk evaluation process. Variations in human activity patterns, physico-chemical considerations in the estimation of exposed dose, and bioavailability assumptions are critical in exposure assessment. It is here that the professional judgment of the risk assessor becomes particularly important. The risk assessor must examine and interpret a diversity of information, including:

- The nature, extent, and magnitude of contamination
- Transport of chemicals in the environment
- Identification of exposure routes
- Identification of receptor groups currently at risk, and potentially at risk in the future
- Activity patterns of receptors and receptor groups.

Based on this information, the risk assessor must develop exposure scenarios and quantify all parameters needed in the equations to estimate intake or dose (EPA 1989a).

The general form of the intake or dose equation used in risk evaluation is presented and discussed in Appendix G. The equation used will vary depending upon the exposure route under consideration (e.g., ingestion exposure, dermal exposure). Although inaccurate, for the purposes of quantifying intake or dose, exposure variables, including chemical concentration, are

commonly taken as point estimates. In actuality, each of these variables is characterized by a distribution of possible values; a probability distribution, or more accurately, a probability density function (PDF).

Depending upon the characteristics of the data set, the PDF may be represented by a variety of distributions: uniform, normal, lognormal, exponential, and beta. As a continuous function of distribution, height of the curve at any given point in PDF is proportional to the relative likelihood of the uncertainty in quantity having that value. Ideally, dose estimates for risk assessment should be developed by combining PDFs for all input variables. The resultant PDF for dose would then be used in the risk characterization step to generate a probability distribution of potential risk estimates.

A quantitative uncertainty analysis of this type is beyond the scope of the present evaluation. The existing EPA guidance does not yet recommend the use of these methods given the lack of information on the shape of these probability distributions, and the need to consider correlation between input variables. However, it is important to understand this approach, and the limitations of risk evaluation that do not use these methods.

Table 4-17 summarizes the principal sources of uncertainty in the preliminary human health risk evaluation of chemicals present at, or released from, the Indiana ANGB sites. In keeping with EPA guidance (EPA 1989a), a qualitative (order of magnitude) evaluation is made of the relative influence of each principal source of uncertainty on the overall results of risk evaluation.

4.7 ECOLOGICAL EVALUATION

This section presents an evaluation of the potential for ecologically significant effects associated with the presence of contaminants at the three sites at the Base.

4.7.1 Overview

Ecological (or environmental) assessment is conducted as a parallel process to the human health risk evaluation. The principal purpose of ecological assessment within the context of the

Table 4-17. Summary of Uncertainty in Health Risk Assessment 122 Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana

| | Over | all Effect on Risk E | stimates* |
|---------------------------------------------------------------------------------|---------------------------------|----------------------------------|---------------------------------------|
| Assumptions in Risk Assessment | Potential for Overestimation | Potential for Underestimation | Potential for Over or Underestimation |
| Data Collection and Evaluation | | | |
| Number of samples | | | L to M |
| Precision and accuracy of chemical analysis | | | L to M |
| Exposure Assessment | | | |
| Use of maximum parameter concentrations | M | | |
| Conservative uptake and bioavailability information | M to H | | |
| Assumptions that chemicals persist for extended periods | L to M | | |
| Exclusion of exposure pathways | | L | |
| Contaminant detected is ubiquitous | | L to M | |
| Use of limited information on contaminant levels for chronic effects assessment | | | L to M |
| Future exposure to groundwater | М | | |
| Toxicity Assessment | | | |
| Use of EPA-derived RfDs and SFs | | L to M | |
| Use of oral RfD for dermal risk estimation | M | | |
| Dose estimates based on administered versus absorbed dose | M | | |
| Assumption of additivity of toxic effects | | M | |
| Risk Characterization | | | |
| Likelihood that receptors under evaluation are actually at risk | M | | |
| Uniform distribution of risks for age and sex categories | | L to M | |

^{*} L = Low (effects on risk estimate < one order of magnitude)

M = Moderate (effect on estimate by one or two orders of magnitude)

H = High (effects on risk estimate > two orders of magnitude)

Installation Restoration Program (IRP) waste site evaluation program is to provide information on threats to the natural environment associated with contaminants present at, or released from, a waste site. This information is used in determining the need for further site assessment and results in one of the following:

- A recommendation of no further action
- The need for immediate response (imminent threat)
- A recommendation for a Focused Feasibility Study/Remedial Measures (FFS/RM)
- A recommendation for a Remedial Investigation/Feasibility Study (RI/FS).

The preliminary ecological evaluation presented in this report is a supplement to the SI and preliminary human health risk evaluation conducted by SAIC. The ecological evaluation should be viewed as a screening-level assessment and decisionmaking tool. This evaluation is not designed to be as comprehensive as that prepared for an RI (i.e., baseline ecological risk assessment).

The ecological evaluation for the three sites at the Indiana ANGB has been conducted to provide preliminary information on potential impacts to plant and animal species. This qualitative evaluation focuses principally on three component analyses:

- Determine the presence of threatened or endangered species
- Determine the presence of critical habitats
- Examine the potential for disruption of critical habitats (if present) and impacts to threatened or endangered species.

A qualitative assessment also was made of potential impacts to wetlands and wilderness areas, and natural, historic, and archaeological preservation areas.

This evaluation is based on information obtained on the ecological conditions in the vicinity of Indiana ANGB and should not be considered a risk assessment. This evaluation is qualitative in nature and does not quantify potential adverse effects in plant or animal species, in populations, or in the ecosystem as a whole. However, given the minimal levels of

contamination observed at the sites at the Base, and the absence of any unique habitats, the qualitative assessment provided herein is considered to be adequate for the purposes of an SI.

4.7.2 Current Ecological Setting

The current ecological setting in the vicinity of the Base is briefly summarized below. Much of this information has been extracted from the Environmental Impact Statement (EIS) prepared for the proposed construction of a major highway in the vicinity of the Base.

Wetlands -- Robinson Creek, located more than 1 mile to the north/northeast of the Base, is a riverine, lower perennial, unconsolidated bottom wetland. Harber Ditch is a drainage way located in the vicinity of the Base, and is a riverine, intermittent, streambed wetland. The Fogwell Natural Forest Preserve, located more than 3 miles from the Base, is a 28-acre palustrine, forested, broad-leaved, deciduous wetland, privately owned by Acres, Inc.

Terrestrial and Aquatic Ecology — In the vicinity of the Base, the land is used mostly for agriculture. A small percentage of the area that is wooded is characterized by small tracts of generally 10 to 20 acres. Most farm woodlots are characterized by upland hardwoods. Vegetation within the area near the Base varies from roadside grasses and grassy lawns to a variety of tree species, including sugar maple, beech, oak, ash, hickory, dogwood, and viburnums.

To the northeast and southeast of the Base are the St. Marys and St. Joseph Rivers, which converge to form the Maumee River further east of the Base (Figure 1-1). The woody cover along the river banks and adjacent woodlands provides good wildlife habitat. Within the Maumee River basin, the St. Joseph watershed is characterized by the best terrestrial and aquatic habitat because of less intensive farming, abandoned fields, large bottomland woods, and better water quality. The St. Marys watershed is intensively farmed, with a narrow band of trees and scattered woods along the river. Better habitat is found along the river downstream from Decatur, Indiana. Forty-four species of mammals are found in the Maumee River basin, including deer, squirrel, raccoon, opossum, skunk, fox, coyote, rabbit, other small mammals, reptiles, and amphibians. A variety of songbirds, scavenger birds, and predatory birds also may be present.

The poor water quality of the St. Marys River is responsible for the presence and dominance of such undesirable aquatic species as gizzard shad, quillback carpsucker, green sunfish, and carp. No rare or endangered aquatic species are known or anticipated to exist in other surface waterways.

Rare and Endangered Species -- The on', species of rare or endangered wildlife thought to exist in the area surrounding the Base is the Indiana bat (Myotis Sodalis). This mammal makes its primary summer habitat under the loose bark of medium to large trees.

4.7.3 Evaluation

The focus of the preliminary ecological evaluation of the three sites on Base is a limited examination of endangerment to threatened and endangered species, and the potential for disruption of critical habitats. Because no ecological survey has been conducted for the Indiana ANGB, the assessment if based largely on data from the surrounding area. As mentioned earlier, much of this information has been extracted from the EIS prepared for the proposed construction of a major highway traversing approximately 2 to 3 miles from the Base.

Based on available information and discussions with personnel from the Indiana Department of Natural Resources (IDNR), no threatened or endangered species of flora or fauna are located within a 1-mile radius of the Base. In the vicinity of the Base, the area is within the range of the Federal endangered Indiana bat (Myotis Sodalis). The EIS prepared for construction of the major highway noted that, although the project was located within the range of the Indiana bat, the U.S. Fish and Wildlife Services had determined that the project would not affect this species. No known or endangered aquatic species are known to exist in the vicinity of the Base. Since there are no major surface water resources on Base, no endangered aquatic species are anticipated to exist on Base.

Based on available information and discussions with IDNR personnel, there are no critical habitats at, or in the vicinity of, the Base. A habitat may be defined as the place where an organism lives in the natural setting or the place where one would expect to find the organism. Habitat also may describe the place occupied by an entire community of organisms, including

the abiotic environment (e.g., physical, chemical, or morphological structure of a lake or river system). Critical habitats are unique or unusual natural settings that are necessary for the continued propagation of key species in the ecosystem (i.e., characterized by essential food sources or nesting sites for other species, spawning, and rearing areas). Key species would include organisms essential to the structure and function of the food web, and rare, threatened, or endangered species. Given that a large percentage of the ANGB land area has been paved over or is in an open field, no critical habitats are anticipated to be present on Base property. In particular, the Indiana bat makes its primary summer habitat under the loose bark of medium to large trees. Because of the topography and land use on Base, there would be minimal to no impacts on the Indiana bat even if it were present on Base.

Based on available information, there are no wetlands or wilderness areas on Base or in the immediate vicinity of the Base that could be impacted by the contaminants present at or released from the site. Robinson Creek and the Fogwell Forest Natural Preserve are located more than 1 and 1/2 miles from the Base and are not anticipated to be impacted by contaminants at the Base. From available information, there are no natural, historic, or archaeological preservation sites on Base. There are some prehistoric sites in the vicinity of the Base, but none of these sites appears to be eligible for nomination to the State or National Historic Registers. The Fogwell Forest Natural Preserve and the Fogwell Cemetery are located off Base, but are not expected to be impacted by the contaminants onsite at the Base.

The following additional points should be kept in perspective during the ecological evaluation:

- Principal risks to ecological receptors on Base would be associated with direct contact with contaminated soils.
- Terrestrial species and birds would be the organisms primarily at risk of exposure.
- Most of Indiana ANGB is paved over or characterized by open field. Only the wooded and marshy areas on the southern end of the Base would provide much in the way of habitat.
- Based upon information from IDNR, no critical habitats are anticipated to be present on Base.

- It is likely that terrestrial species would avoid paved and open areas used predominantly by Base personnel, or characterized by soils or vegetation of unpleasant taste or odor.
- No 'keystone species' are present on the Indiana ANGB. Therefore, no irreversible
 population or ecosystem effects are projected to occur. The scope of the ecological
 risk assessment for the SI is not sufficiently comprehensive to accurately determine
 impacts on individual organisms.
- Based on surveys of the area in the vicinity of the Base, the only threatened or endangered species expected to be present is the Indiana bat; however, this species is not expected to be found at the Base. No state-listed threatened or endangered species unique to the area are projected to be found on Base.

Therefore, based on the above points and available information on the ecological setting at the Base, it is concluded that the ANGB sites under investigation do not present an unacceptable risk to the environment. There is no critical habitat, or threatened or endangered species, likely to be present at the ANGB sites under investigation. Chemicals present at the waste sites do not pose an irreversible risk to key species, populations, or ecosystem structure and function.

4.8 SUMMARY AND CONCLUSIONS OF THE PRELIMINARY RISK EVALUATION

A preliminary risk evaluation of Indiana ANGB Sites 1 and 3 was conducted to evaluate risks to human health and to support the determination of the need for site remediation. The risk evaluation performs a comparison of environmental quality data for site-specific chemicals with ARARs. In addition, quantitative risk evaluation was performed to evaluate current and future potential for adverse noncarcinogenic and carcinogenic effects following long-term exposure of Base personnel to site-related contaminants. Based on the preliminary risk characterization, the risks of exposure of Base personnel to the site-related chemicals at Sites 1 and 3 fall within the acceptable range established by EPA. Similarly, the potential future risks for onsite construction workers to site-related chemicals at Sites 1 and 3 are considered acceptable.

The risk estimates were primarily attributable to two chemicals, arsenic and benzo(a)pyrene. An analysis of background concentrations for these two chemicals was performed, whereby background levels were compared to the chemical concentrations detected at the sties. This comparison indicated that the site samples were consistent with background

levels for the same substances. This indicates that there is no statistical evidence of site-related contamination, and that the acceptable risk estimates are indistinguishable from those attributable to background.

It is important to re-emphasize that this evaluation was conducted as part of the SI at Indiana ANGB and was not designed to be as comprehensive as that prepared for an RI (i.e., baseline risk assessment). Ecological risk assessment is only preliminary; the actual risks to nonhuman receptors are not quantified.

The following summarizes the preliminary risk evaluation for Indiana ANGB Sites 1 and 3:

- There is no immediate endangerment to human health due to the presence of chemicals in the surficial soils, or subsurface (0 to 10 feet) soil at Indiana ANGB Sites 1 and 3.
- The potential risks (i.e., noncarcinogenic and carcinogenic) to onsite workers of chronic (long-term) ingestion and dermal exposure to chemicals in surficial soils are within the acceptable range established by EPA for waste site remediation. The HQs and HIs are orders of magnitude below the acceptable level of 1. The estimated excess lifetime risk of cancer is within the range of 10⁻⁶ to 10⁻⁴. Risks are within the acceptable range for exposure to both average and maximum concentrations of contaminants in the soil samples.
- Groundwater beneath the waste sites is not used currently or projected to be used in the future as a source of drinking water for Base personnel and the general public. The groundwater quality was determined to be unsuitable as a potable water supply. Therefore, exposure to groundwater is not an exposure pathway of concern.
- For the purposes of the present study, groundwater quality was evaluated by comparison with ARARs. Except for beryllium, the mean concentrations of all metals were below the relevant ARARs. The maximum concentration of certain chemicals exceeded the PMCLs. All metals in groundwater are not considered to be entirely site related.

Considering that the risk estimates are point estimates, it is important to recognize the inherent uncertainties in the calculated risks for the sites under evaluation. Ideally, all risk estimates should encompass the range of possible values for all of the exposure and toxicity components used in the derivation of risks. In the absence of detailed site-specific information,

the preliminary risk evaluation of Indiana ANGB sites yield upper-bound estimates of the potential for adverse health effects. Given the conservative nature of the adopted method for the risk evaluation, it is very unlikely that the potential risks to human health have been underestimated.

5. CONCLUSIONS AND RECOMMENDATIONS

A Site Inspection (SI) has been conducted under the U.S. Department of Defense (DOD) Installation Restoration Program (IRP) at three sites at the 122nd Tactical Fighter Wing, Indiana Air National Guard Base (ANGB), Fort Wayne, Indiana. The SI was conducted in two phases; the first phase of the SI was planned and conducted to obtain data to confirm the presence or absence of suspected environmental contamination at the three sites. The Phase I activities were conducted during August and September 1990. During Phase I activities, contamination in site soils was observed. It also was determined that additional data were needed to fill in data gaps that were identified during the evaluation of field and laboratory data. Accordingly, Phase II activities were planned to obtain data to:

- Confirm the presence of contaminants detected during Phase I
- Delineate the extent of contamination found
- Evaluate the risk posed by any verified contamination to human health and the environment.

Phase II activities were conducted during October and November 1991. Conclusions and recommendations from the overall SI activities are presented in this section and discussed separately for each site.

5.1 SITE 1 - FORMER FIRE TRAINING AREA

In evaluating the significance of contamination detected at Site 1 - Former Fire Training Area (FTA), it should be noted that the former FTA surface where the actual burning occurred is located approximately 10 to 12 feet below current ground surface. Therefore, any contamination related to fire training activities conducted at this site would most likely be found at the former surface or below the former surface. The former FTA surface is covered with 5 to 12 feet of fill material, which consists of a large fraction of dense clay. Analytical data were divided into two groups to evaluate effectively the significance of contamination at the site:

1) the fill layer above the former FTA surface (upper 5 to 12 feet), and 2) the former FTA surface and below (from 5 feet below the current ground surface to the water table).

Contaminants were detected in the fill layer, but are not considered to be related to fire training activities that occurred at the site. Except for arsenic, all other metals were detected at concentrations below background levels. Some volatile organic compounds (VOCs), principally toluene, and several polynuclear aromatic hydrocarbons (PAHs) were detected in soil samples collected within the fill layer. The significance of these contaminants was evaluated through a preliminary risk evaluation. The results of the risk evaluation are discussed later in this section.

Contamination at Site 1 resulting from fire training activities appears to be present in an area immediately downslope from the former FTA extending 60 to 80 feet west of the burn area. The western extent of contamination is estimated to be less than 85 feet from the burn area. The contamination consists of benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds that are major components of aviation fuel, and semivolatile organic compounds (SVOCs) that include a list of several PAHs. PAHs are products of combustion and typically are found in burn areas. Contaminants were not detected in subsurface soils at depths greater than 5 feet below the former FTA surface (15 to 16.5 feet below current ground surface).

No contaminants were detected in the groundwater. This is consistent with the soil sampling results, which indicate that contaminants have not migrated beyond 5 feet below the former FTA surface. The thick clay layer that exists throughout the subsurface at the site appears to have contained the vertical migration of any contamination well in the vicinity of the former FTA surface, and will continue to do so in the future.

Based on the evaluation of analytical results and a review of the site geology, the overall significance of the observed nature and extent of contamination appears to be minimal. The risk evaluation conducted for exposure to contaminants at the site showed that carcinogenic and noncarcinogenic risks to public health are within the acceptable range. Current risks to Base personnel were estimated based on ingestion and dermal contact with the soils. Future risks assumed construction at the site, and consequent exposure to onsite workers.

Based on the conclusions presented above, no further actions are required at Site 1. Twenty years have elapsed since fire training activities were terminated at the FTA, and in that time, site-related contaminants have migrated only 5 feet below the former FTA surface. This is evidenced by the fact that groundwater has not been impacted. Therefore, no remedial actions are required at this site.

5.2 SITE 3 - HAZARDOUS WASTE COLLECTION AREA

The contamination in soils at Site 3 - Hazardous Waste Collection Area (HWCA) consists primarily of oils and grease. No organic contaminants were detected in soil samples collected from the sand and gravel layer, and except for arsenic, all other metals detected are considered within background concentrations. Some VOCs, namely halogenated organic compounds, were detected in some soils from the sand and gravel layer during the Phase I sampling event. The same VOCs were not detected in samples collected during Phase II activities. It appears likely that the concentration of VOCs may have been significantly reduced through natural attenuation processes. In particular, volatilization of VOCs would occur easily through the loose sand and gravel layer.

Contamination at this site is confined to the fenced area that surrounds the drum storage area. The contamination is predominantly in the top 4 feet of soils, which also coincides with the thickness of the sand and gravel layer. The results of the groundwater analyses show that the underlying aquifer has not been impacted. This is consistent with the conclusion that contamination (consisting of mostly oils and grease) is predominantly in the top 4 feet of soils and has not migrated toward the groundwater table. Oils and grease are insoluble in water, and are easily adsorbed to the soils; therefore, the potential for oils and grease to migrate vertically is minimal. Oils and grease also are easily biodegradable, and natural attenuation processes will reduce the concentration of these compounds over time.

The results of the preliminary risk evaluation show that current carcinogenic and noncarcinogenic risks to Base personnel from ingestion and dermal contact with the surficial soils are within the acceptable range. For a future exposure scenario assuming construction at the site, risks to onsite workers also was found to be within the acceptable range.

No remedial actions are required at Site 3; however, it is recommended that appropriate operating procedures be employed during storage to ensure that any spills that might occur be effectively captured. A concrete pad with a surrounding berm or other containment procedure is an option that should be considered for this site.

5.3 SITE 4 - POL SPILL SITE

The analytical results of soil, groundwater, and sediment samples collected at Site 4 - POL Spill Site show that there is minimal residual contamination at the site resulting from the spill that occurred in 1968. Spots of contamination are present in soils at the site that are most likely from other sources and not from the spill itself. In sediment samples collected from the drainage ditch in the immediate vicinity of the site, low concentrations of total petroleum hydrocarbons (TPH) (17 mg/Kg) were detected; however, no organics of concern were detected. Groundwater at the site has not been impacted; in addition, potential for contaminants to migrate to groundwater is minimal because of the dense clay layer that comprises the subsurface geology. Lead was detected in one monitoring well sample at a concentration above the maximum contaminant level (MCL) for lead. Although this monitoring well is not located directly upgradient from the site, it is in a lateral direction to groundwater flow. Therefore, concentration of lead in this well may be from some other source at the Base. The average concentration of lead in all groundwater samples is below the MCL.

The overall significance of the detected contamination at this site can be considered minimal for the following reasons:

- The aquifer at this site, as at other sites, is overlain by 30 to 35 feet of dense clays, which minimizes the potential for vertical migration of contaminants.
- Access to the site is limited; therefore, exposure for the general public to any surficial contaminants would be minimal. Base personnel working in the area follow appropriate procedures required for conducting operations at a fuel storage site. These procedures would prevent exposure to site surface soils.
- Based on available information, the contamination at this site is the result of a spill
 that occurred in 1968. Remedial actions that were implemented at that time
 consisted of flushing the spill with 200,000 gallons of water. Since that spill, the
 old underground storage tank (UST) system has been replaced by an aboveground
 system designed in accordance with regulatory requirements.

No permanent residences are within 1,400 feet of the Base. The land use in the vicinity of the Base is mostly agricultural. The Base itself is securely guarded so that access to the general public is minimal. No groundwater wells or surface water resources are located within 1/4 mile of the site. A storm drain is located approximately 200 feet from the site.

A preliminary qualitative assessment of impacts to the ecology shows that no threatened or endangered species are on Base, and no critical habitats that could be impacted by the contaminants observed onsite. Therefore, given the minimal extent of residual contamination at the site, and the low potential for Base personnel and the general public to be impacted, no further remedial actions are required at Site 4.

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APPENDIX A SOIL GAS SURVEY

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> SHALLOW SOIL GAS AND GROUNDWATER INVESTIGATION INDIANA AIR NATIONAL GUARD FORT WAYNE, INDIANA

> > **AUGUST 1990**

SUBMITTED BY:

Tracer Research Corporation

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Tracer Research Corporation



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INTRODUCTION

A shallow soil gas and groundwater investigation was performed by Tracer Research Corporation (TRC) at the Indiana Air National Guard site located in Fort Wayne, Indiana. The investigation was conducted August 15-16, 1990 under contract to Science Applications International Corporation (SAIC). The purpose of the investigation was to delineate the extent of possible contamination in the subsurface.

During this survey, a total of twenty four soil gas samples and three groundwater samples were collected and analyzed. Samples were analyzed for volatile organic compounds from the following suite:

benzene
toluene
ethylbenzene
xylenes
total petroleum hydrocarbons (THC)
(TPH)

Xylenes are reported as the total of the three xylene isomers and total hydrocarbons are reported as gasoline range compounds consisting of approximately C_4 - C_9 aliphatic, alicyclic, and aronatic compounds.

These compounds were chosen as target compounds because of their suspected presence in the startace and amenability to soil gas technology. Soil gas and groundwater samples were screened on a gas chromatograph equipped with a flame ionization detector (FID).



SHALLOW SOIL GAS INVESTIGATION - METHODOLOGY

Shallow soil gas investigation refers to a method developed by TRC for investigating underground contamination from volatile organic chemicals (VOCs) such as industrial solvents, cleaning fluids and petroleum products by looking for their vapors in the shallow soil gas. The method involves pumping a small amount of soil gas out of the ground through a hollow probe driven into the ground and analyzing the gas for the presence of volatile contaminants. The presence of VOCs in shallow soil gas indicates the observed compounds may either be in the vadose zone near the probe or in groundwater below the The soil gas technology is most effective in mapping low molecular weight halogenated solvent chemicals and petroleum hydrocarbons possessing high vapor pressures and low aqueous solubilities. These compounds readily partition out of the groundwater and into the soil gas as a result of their high gas/liquid partitioning coefficients. Once in the soil gas, VOCs diffuse vertically and horizontally through the soil to the ground surface where they dissipate into the atmosphere. The contamination acts as a source and the above ground atmosphere acts as a sink, and typically a concentration gradient develops between the two. The concentration gradient in soil gas between the source and ground surface may be locally distorted by hydrologic and geologic anomalies (e.g. clays, perched water); however, soil gas mapping generally remains effective because distribution of the contamination is usually broader in areal extent than the local geologic barriers and is defined using a large data base. The presence of geologic obstructions on a small scale tends to create anomalies in the soil gas-groundwater correlation, but generally does not obscure the broader areal picture of the contaminant distribution.

Soil gas contaminant mapping helps to reduce the time and cost required to delineate underground contamination by volatile contaminants. The soil gas investigation does this by outlining the general areal extent of contamination. Conventional bore holes or observation wells are used to verify both the presence and extent of the subsurface contamination as indicated in the soil gas survey. In this manner, soil gas contaminant mapping can assist in determining the placement of monitoring wells. Thus, the likelihood



of drilling unnecessary monitoring wells is reduced. The soil gas survey is not intended to be a substitute for conventional methodology, but rather to enable conventional methods to be used efficiently.

EQUIPMENT

Tracer Research Corporation utilized a one ton Ford analytical field van that was equipped with one gas chromatograph and two Spectra Physics computing integrators. In addition, the van has two built-in gasoline powered generators that provide the electrical power (110 volts AC) to operate all of the gas chromatographic instruments and field equipment. A specialized hydraulic mechanism consisting of two cylinders and a set of jaws was used to drive and withdraw the sampling probes. A hydraulic hammer was used to assist in driving probes past cobbles and through unusually hard soil.

SOIL GAS SAMPLING PROCEDURES

Sampling probes consist of 7 foot lengths of 3/4 inch diameter hollow steel pipe that are fitted with detachable drive tips. Soil gas probes were advanced to 2-5 feet below grade. Once inserted into the ground, the above-ground end of the sampling probes were fitted with a steel reducer and a length of polyethylene tubing leading to a vacuum pump. Gas flow is monitored by a vacuum gauge to insure that an adequate flow is obtained.

To adequately purge the volume of air within the probe, 2 to 5 liters of gas is evacuated with a vacuum pump. During the soil gas evacuation, samples are collected in a glass syringe by inserting a syringe needle through a silicone rubber segment in the evacuation line and down into the steel probe. Ten milliliters of gas are collected for immediate analysis in the TRC analytical field van. Soil gas is subsampled (duplicate injections) in volumes ranging from 1 uL to 2 mL, depending on the VOC concentration at any particular location.

Sample probe vacuums ranged from three to twelve inches Hg. The maximum pump vacuum was measured at twenty-two inches Hg.



GROUNDWATER SAMPLING PROCEDURES

Groundwater samples were collected by driving the hollow probes with detachable drive points below the water table. Once at the desired depth the probe was withdrawn several inches to permit water inflow into the resulting hole. Groundwater samples were collected depths of 2-3 feet below grade. Once inserted into the ground, the above-ground end of the sampling probes were fitted with a vacuum adaptor (metal reducer) and a length of polyethylene tubing leading to a vacuum pump. A vacuum of up to 24 inches of mercury was applied to the interior of the probe and open hole for 10 to 15 minutes or until the water was drawn up the probe. The water thus accumulated was then removed by drawing a vacuum on a 1/4 inch polyethylene tube inserted down the probe to the bottom of the open hole. Loss of volatile compounds by evaporation is accordingly reduced when water is induced to flow into the very narrow hole, because it can be sampled with little exposure to air. The polyethylene tubing was only used once and then discarded to avoid any cross-contamination problems.

Groundwater samples were collected in 40 mL VOC vials that are filled to exclude any air and then capped with Teflon-lined septa caps. Water samples were analyzed by injecting headspace in the sample container created by decanting off approximately half of the liquid in the bottle. Headspace analysis is the preferred technique when a large number of water samples are to be performed daily. The method is more time efficient for the measurement of volatile organics than direct injection because there is less chance for semi-volatile and non-volatile organics to contaminate the system as there is with direct injection. Depending upon the partitioning coefficient of a given compound, the headspace analysis technique can also yield greater sensitivity than the direct injection technique. Both methods are similar in terms of precision and accuracy.

ANALYTICAL PROCEDURES

A Varian 3300 gas chromatograph, equipped with a flame ionization detector (FID), was used for the soil gas and groundwater analyses. Compounds were separated on 6' by



1/8" OD packed column with OV-101 as the stationary phase in a temperature controlled oven of 100°C. Nitrogen was used as the carrier gas.

Hydrocarbon compounds detected in the soil gas and groundwater were identified by chromatographic retention time. Quantification of compounds was achieved by comparison of the detector response of the sample with the response measured for calibration standards (external standardization). Instrument calibration checks were run periodically throughout the day and system blanks were run at the beginning of the day to check for contamination in the soil gas sampling equipment. Air samples were also routinely analyzed to check for background levels in the atmosphere.

The GC was calibrated for groundwater headspace analysis by decanting 10 to 20 mL off of the known aqueous standard so as to leave approximately the same amount of headspace that was in the groundwater samples. The bottle was then resealed and shaken vigorously for 30 seconds. An analysis of the headspace in the vial determines the Response Factor (RF) which is then used to estimate water concentrations.

Detection limits for the compounds of interest are a function of the injection volume as well as the detector sensitivity for individual compounds. Thus, the detection limit varies with the sample size. Generally, the larger the injection size the greater the sensitivity. However, peaks for compounds of interest must be kept within the linear range of the analytical equipment. If any compound has a high concentration, it is necessary to use small injections, and in some cases to dilute the sample to keep it within linear range. This may cause decreased detection limits for other compounds in the analyses.

The detection limits for the selected compounds were approximately 0.01 ug/L for hydrocarbons detected in the soil gas samples and 0.1 ug/L for hydrocarbons detected in the groundwater samples, depending on the conditions of the measurement, in particular, the sample size. If any component being analyzed is not detected, the detection limit for that compound in that analysis is given as a "less than" value (e.g. <0.1 ug/L). Detection limits obtained from GC analyses are calculated from the current response factor, the sample size,

and the estimated minimum peak size (area) that would have been visible under the conditions of the measurement.

QUALITY ASSURANCE/QUALITY CONTROL PROCEDURES

Tracer Research Corporation's normal quality assurance procedures were followed in order to prevent any cross-contamination of soil gas and groundwater samples.

- . Steel probes are used only once during the day and then washed with high pressure soap and hot water spray or steam-cleaned to eliminate the possibility of cross-contamination. Enough probes are carried on each van to avoid the need to reuse any during the day.
- Probe adaptors (TRC's patented design) are used to connect the sample probe to the vacuum pump. The adaptor is designed to eliminate the possibility of exposing the sample stream to any part of the adaptor. Associated tubing connecting the adaptor to the vacuum pump is replaced periodically as needed during the job to insure cleanliness and good fit. At the end of each day the adaptor is cleaned with soap and water and baked in the GC oven.
- . Silicone tubing (which acts as a septum for the syringe needle) is replaced as needed to insure proper sealing around the syringe needle. This tubing does not directly contact soil gas samples.
- . Glass syringes are usually used for only one sample per day and are washed and baked out at night. If they must be used twice, they are purged with carrier gas (nitrogen) and baked out between probe samplings.
- . Injector port septa through which samples are injected into the chromatograph are replaced on a daily basis to prevent possible gas leaks from the chromatographic column.

- Analytical instruments are calibrated each day by analytical standards from Chem Service, Inc. Calibration checks are also run after approximately every five sampling locations.
- . Subsampling syringes are checked for contamination prior to sampling each day by injecting nitrogen carrier gas into the gas chromatograph.
- Prior to sampling each day, system blanks are run to check the sampling apparatus (probe, adaptor, 10 cc syringe) for contamination by drawing ambient air from above ground through the system and comparing the analysis to a concurrently sampled ambient air analysis.
- All sampling and subsampling syringes are decontaminated each day and no such equipment is reused before being decontaminated. Microliter size subsampling syringes are reused only after a nitrogen carrier gas blank is run to insure it is not contaminated by the previous sample.
- . Soil gas pumping is monitored by a vacuum gauge to insure that an adequate gas flow from the vadose zone is maintained. A reliable gas sample can be obtained if the sample vacuum gauge reading is at least 2 inches Hg less than the maximum pump vacuum.

Tracer Research Corporation

APPENDIX A: CONDENSED DATA

NOTE:

- "Condensed Data" provides results from all samples collected; however, some grid points were labeled in the field and on site diagrams but not sampled.
- ² "Air" samples are field blanks of ambient air used for quality control purposes.

| SAICTINDIANA AIR NATIONAL GUARD/FORT WAYNE, INDIANA JOB#1-96-700-S 8/15/90 CONDRINGED DATA | E, INDIANA JOB#1-90-700-S |
|--------------------------------------------------------------------------------------------------|---------------------------|
|--------------------------------------------------------------------------------------------------|---------------------------|

| SAMPLE | BENZENB | TOLUENE ug/l | BENZENE ug/l | XYLENES ug/ | 14 2 |
|-----------|--------------|-----------------|-----------------|---------------|--------------|
| AIR | 7 | ⊽ | V | ٧ | * |
| WS-317-5 | 7 | 7 | . △ | 8 | 9 ' 9 |
| WS-L15-5" | 45 | 87 | 8 | 3000 | 28000 |
| AIR | <03 | <0.4 | 4.0 × | 900 | 2 |
| - TT | 77 | | <0.1 | 03 | 7. |
| MZI-f | 0.3 | 0.2 | <0.09 | 01 | 0.7 |
| .5-120 | < 0.03 | ×0.04 | *0.0 * | \$000 | <0.2 |
| 0134. | <0.03 | 40.04 | 40.0 | <0.05 | <0.2 |
| M11-f | < 0.03 | 40.04 | 40.04 | <0.05 | 402 |
| M15-2.5 | < 0.03 | 70.0 V | 40.0 4 | ~ 0.05 | <0.2 |
| M17-3.5 | <0.05 | 40.0 4 | 40.0 × | 20.02 | <0.2 |
| 111-35 | ~0.03 | 40.0 4 | 40.04 | <0.05 | <0.2 |
| L17-5" | < 0.03 | 40.04 | 40.04 | <0.05 | <0.2 |
| 119.2 | <0.03 | V0.0 V | 40.0 4 | <0.05 | <0.2 |
| M19-5 | ~0.03 | 700 V | 40.04 | <0.05 | <0.2 |

Analyzed by: P. Retto
Checked by: J. Dock
Proofed by: J. Cock

SAIC/INDIANA AIR NATIONAL GUARD/FORT WAYNE, INDIANA JOB#1-90-766-8 8/16/90 CONDENSED DATA

| 1 | BENZENE | TOLUBNE | BENZENE | XYLENES | # 6 4 |
|-------------|----------------|---------|---------------|---------------|------------|
| SAMPLE | Van | Va | /dn | /So | /an |
| AIR | <0.03 | <0.03 | ×0.04 | 40.04 | <0.1 |
| 023-3.5 | <0.03 | <0.03 | 70 00 | *0.0 | <0.1 |
| 123-3" | < 0.03 | 0.1 | 40.04 | ₹0.0 | 0.2 |
| 22.521 | <0.03 | <0.03 | **** | *0.0 * | <0.1 |
| 319-2.5 | 7 | • | <0.2 | <0.2 | ន |
| H23-5 | <0.03 | <0.03 | 40.0v | ×0.04 | <0.07 |
| L13-10° | <0.03 | <0.03 | **** | ×0.0× | <0.1 |
| 313.5 | = | 2 | <07 | 21 | 130 |
| 76. | <0.03 | 0.03 | 70.0 | 40.04 | 0.3 |
| WS-123-3" | <0.9 | đ | 7 | \$ | 110 |
| WS-315-2.5' | 909 | 909 | ₹ | · 12000 | 76000 |
| WS-H16-2" | 7 | 12000 | 7 | 4600 | 36000 |
| ¥. | <0.2 | <0.2 | <0.2 | <03 | ~03 |
| F1445 | 96 | | <0.07 | 0.4 | 7 |
| B16-2" | <0.03 | <0.03 | 40.0 | *0.0 * | <0.1 |
| B2-14-1.5 | 0.07 | 29 | *0.0 * | 0.08 | 3 |
| H25-3" | ~6.1 | <0.2 | <0.2 | <0.7 | <0.7 |
| 2-72D | <0.03 20.03 | <0.03 | 700 0 | 40.0 × | <0.1 |
| P254.5 | <0.0> | <0.03 | 7 0.0V | 40.0 × | <0.1 |

Analyzed by: P. Relto Checked by: J. Gook Proofed by:

APPENDIX B
BOREHOLE LOGS & MONITORING WELL AS-BUILTS

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INDIANA ANG SITE INVESTIGATION, FORT WAYNE, INDIANA SOIL BORING LOG

SOIL BORING MO.: S81-1
SUPERVISORY GEOLOGIST: KATE FOX
LOG BOOK/PG. NO. : 3/30-32
DRILLING STARTED: 8/27/90
BORING COMPLETED: 8/27/90

LAND SURFACE ELEVATION: 796.03 MSL TOTAL DEPTH DRILLED: 33 BLS TOTAL DEPTH ELEVATION: 763.03 MSL

DRILLING COMPANY: MATHES ENV. SERV. DRILLER: K. BUNSELMEYER RIG TYPE: CME - 550

| BORING | BORING COMPLETED: 8/27/90 | 8/27/90 | | | | | | | | • |
|-------------------------|---------------------------|----------|------------------------------|------------------------------|------------------|------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------|
| DEPTH (FT BLS) | SAMPLE S) NUMBER | BLOW | TOP OF SAMPLE (FT BLS) | BOTTOM SAMPLE (FT BLS) | RECOVERY (FT) | SOIL TYPE (USCS) | LITHOLOGIC SYMBOLS | LITHOLOGIC DESCRIPTION | LEL RESULTS X | HINU RESULTS (PPM) |
| 0.0 | N/A | N/A | N/A | 10.0 | N/A | | | | | |
| 10.0 | SB1-1-1 | 13-25-32 | 10.0 | 12.0 | 1.83 | ಕ | | CLAY; TRC TO SOME SILT; TRC PEBBLES. 10 YR 4/1 DARK GRAY; POORLY SORT; PEBBLES RND; V. DENSE; PLASTIC; SLIGHTLY MOIST. | BKG | ¥ |
| 12.0 | SB1-1-2 | 10-19-34 | 12.0 | 14.0 | 1.83 | ಕ | | CLAY; TRC TO SOME SILT; TRC PEBBLES. 10 YR 4/1 DARK GRAY; POORLY SORT; PEBBLES RND; V. DENSE; PLASTIC; SLIGHTLY MOIST. | BKGD | 3 |
| 14.0 | SB1-1-3 | 8-14-18 | 14.0 | 16.0 | 1.83 | ಕ | | CLAY; TRC TO SOME SILT; TRC PEBBLES. 10 YR 4/1 DARK GRAY; Poorly sort; Pebbles RND; V. Dense; Plastic; Moist. | BKCD | 0 |
| <u>9</u> B -1 | \$81-1-4 | 9-16-18 | 16.0 | 18.0 | 8. | ಠ | | CLAY; TRC TO SOME SILT; TRC PEBBLES. 10 YR 4/1 DARK GRAY; POORLY SORT; PEBBLES RND; V. DENSE; PLASTIC; MOIST. | BKG | æ |
| 18.0 | SB1-1-5 | 8-16-24 | 18.0 | 20.0 | 1.83 | ಕ | | CLAY; SOWE SILT; TRC PEBBLES. 10 YR 4/1 DARK GRAY; POORLY SORT; PEBBLES RND; V. DENSE; V. PLASTIC; MOIST. | BKGD | - |
| 20.0 | se1-1-6 | 7-14-20 | 20.0 | 22.0 | 1.83 | ಕ | | CLAY; SOME SILT; TRC PEBBLES. 10 YR 4/1 DARK GRAY; POORLY SORT; PEBBLES RMD; V. DENSE; V. PLASTIC; MOIST. | BK G | 2 |
| 22.0 | se1-1-7 | æ | 22.0 | 24.0 | 1.83 | ಕ | | CLAY; SOWE SILT; TRC PEBBLES. 10 YR 4/1 DARK GRAY; POORLY SORT; PEBBLES RND; V. DENSE; V. PLASTIC; MOIST. | BKCD | 0 |
| 24.0 | SB1-1-8 | 9-15-25 | 24.0 | 26.0 | 1.83 | ಕ | | CLAY; SOWE SILT; TRC PEBBLES. 10 YR 4/1 DARK GRAY; POORLY SORT; PEBBLES RND; V. DENSE; V. PLASTIC; MOIST. | BKGD | 0 |
| 26.0 | SB1-1-9 | 14-27-31 | 26.0 | 28.0 | 1.83 | ಕ | | CLAY; SOWE SILT; SOWE TO TRC FINE SAND; TRC PEBBLES. 10YR 4/1 DARK GRAY; POORLY SORT; PEBBLES RND; V. DENSE; V. PLASTIC; HOIST. | BKGD | 0 |
| | | | | | | | | | | |

| HNU ESULTS (PPH) | 2 | | • |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LEL HNU RESULTS RESULTS X (PPM) | вксо | 8 K@ | BKG |
| LITHOLOGIC DESCRIPTIOM | CLAY; SOME SILT; TRC PEBBLES. 10 YR 4/1 DARK GRAY; POORLY SORT; PEBBLES RND; V. DENSE; V. PLASTIC; MOIST. | 30-31', CLAY; SOME SILT; TRC PEBBLES. 10 VR 4/1 DARK GRAY; POOBLY SORT; PEBBLES RND; V. DENSE; V. PLASTIC; MOIST. 31-32 (SEE SB1-1-12) | GRAVEL; V. FINE TO COARSE PËBBLES; SOME V. FINE TO COARSE SAMD. 10YR 4/1 - 4/2 DARK GRAY TO DARK GRAVISH BROWN; POORLY SORT; RND TO SUBR; LOOSE; NON-PLASTIC; SAT. |
| SOIL TYPE LITHOLOGIC (USCS) SYMBOLS | | | |
| SOIL TYPE (USCS) | ಕ | ಕ | 3 |
| RECOVERY (FT) | 1.83 | 1.83 | 1.83 |
| BOTTOM SAMPLE (FT BLS) | 30.0 | 32.0 | 33.0 |
| TOP OF SAMPLE (FT BLS) | 28.0 | 30.0 | 0.10 |
| BLOW | 28.0 s81-1-10 10-16-25 | 30.0 SB1-1-11 13-26-30 | 3-12-24 |
| SAMPLE | 381-1-10 | 581-1-11 | 31.0 581-1-12 |
| DEPTH (FT BLS) | 28.0 | 30.0 | 31.0 |

INDIANA ANG SITE INVESTIGATION, FORT WAYNE, INDIANA SOIL BORING LOG

| SOIL BO SUPERVI LOG BOO DRILLIN BORING | SOIL BORING NO.: SB1-2 SWERVISORY GEOLOGIST: KATE LOG BOOK/PG. NO.: 4/12-18 DRILLING STARTED: 8/29/90 BORING COMPLETED: 8/29/90 | 581-2 515T: KATE F : 4/12-18 8/29/90 8/29/90 | FOX | ļ | | LAND SI TOTAL 4 TOTAL C | RFACE ELEVA NEPTH ORILLEI NEPTH ELEVAT | LAND SURFACE ELEVATION: 806.70 MSL TOTAL DEPTH DRILLED: 44 BLS TOTAL DEPTH ELEVATION: 762.70 MSL RIG TYPE: CME - 550 | MATHES ENVIEWEYER | V. SERV. | |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------|------------------------------|------------------|-------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------|--------------|
| DEPTH (FT BLS) | SAMPLE S) NUMBER | BLOW | TOP OF SAMPLE (FT BLS) | BOTTOM SAMPLE (FT BLS) | RECOVERY (FT) | SOIL TYPE (USCS) | LITHOLOGIC SYMBOLS | LITHCLOGIC DESCRIPTION | LEL RESULTS X | HNU RESULTS (PPN) | 4 1 347 |
| 0.0 | N/A | N/A | N/A | 10.0 | N/A | | | | | | |
| 10.0 | S81-2-1 | 3-4-7 | 10.0 | 12.0 | 1.0 | ಕ | | CLAY; SOME SILT; SOME FINE TO COARSE SAND; TRC COARSE TO FINE PEBBLES; TRC ORGANIC WATTER - ASPHALT(FILL WATERIAL). 2.5Y 4/2 DARK GRAYISH BROWN WITH 10YR 5/8 YELLOWISH BROWN STREAKS OF CLAY; POORLY SORT CLASTS; RMD TO SUBR; DENSE; PLASTIC; MOIST. | ek ep | 0 | eta) |
| 12.0 5 | S81-2-2 | 8-10-14 | 12.0 | 14.0 | 6. | ಕ | | CLAY; SOME SILT; SOME FINE TO COARSE SAND; TRC COARSE TO FINE PEBBLES; TRC ORGANIC MATTER - ASPHALT(FILL MATERIAL). 2.5Y 4/2 DARK GRAYISH BROWN WITH 10YR 5/8 YELLOWISH BROWN STREAKS OF CLAY; POORLY SORT CLASTS; RND TO SUBR; DENSE; PLASTIC; MOIST. | 8 KG | 0 | 2_ |
| 14.0 | SB1-2-3 | 5-5-6 | 14.0 | 16.0 | 1.63 | ರ | | CLAY; SOME SILT; SOME FINE TO COARSE SAND; TRC COARSE TO FINE PEBBLES; TRC ORGANIC MATTER - ASPHALT. 2.5Y 4/2 DARK GRAYISH BROWN WITH 10YR 5/8 YELLOWISH BROWN STREAKS OF CLAY; POORLY SORT; RND TO SUBR; DENSE; PLASTIC; MOIST. | BK GD | 05-07 | >- |
| 16.0 | S81-2-3R | 6-10-15 | 16.0 | 18.0 | 1.83 | ರ | | CLAY; SOME SILT; SOME FINE TO V. FINE SAND. 10YR 4/2 DARK GRAYISH BROWN WOTTLED WITH 10YR 4/6 DARK YELLOWISH BROWN CLAY; POORLY SORT; DENSE; PLASTIC; MOIST. THIN BEDS OF V. FINE TO MED QUARTZ SAND. | BK G | 05-07 | > |
| 18.0 | SB1-2-4 | 14-22-27 | 18.0 | 20.0 | 8. 1 | ಕ | | CLAY; SOME SILT; TRC COARSE SAND TO MED PEBBLES (UP TO 2CM). 10yr 4/1 dark gray; poorly sort; clasts rnd; v. dense; slightly plastic; hoist to slightly moist. | 8KG | • | _ |
| 20.0 | SB1-2-5 | 16-23-30 | 20.0 | 22.0 | 1.83 | ಕ | | CLAY; SOME SILT; TRC COARSE SAND TO MED PEBBLES (UP TO 5CM). 10YR 4/1 DARK GRAY; POORLY SORT; CLASTS RND; V. DENSE; SLIGHTLY PLASTIC; MOIST TO SLIGHTLY MOIST. | 8 | 69-09 | 2 |
| 22.0 | 381-2-6 | 15-25-40 | 22.0 | 24.0 | 3.1 | ಕ | | CLAY; SOME SILT; TRC COARSE SAND TO MED PEBBLES. 10YR 4/1 DARK GRAY; POORLY SORT; CLASTS RND; V. DENSE; PLASTIC; MOIST TO SLIGHTLY MOIST. | E | • | |

| - |] -_ | | | *** | <u>.</u> | <u>:</u> | <u> 2</u> | · i. | 2. | ~ |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESULTS (PPM) | 6 | 0 | • | • | 0 | 0 | • | • | • | • |
| LEL RESULTS X | 8 | B KG | 8 KG | BKGD | B KGD | BK © | 8 | BKGD | 8 KG | BK GD |
| LITHOLOGIC DESCRIPTION | CLAY; SOME SILT; TRC COARSE SAND TO MED PEBBLES (UP TO 2CM). 10YR 4/1 DARK GRAY; POORLY SORT; CLASTS RND; V. DENSE; SLIGHTLY PLASTIC; MOIST TO SLIGHTLY MOIST. | CLAY; SOME SILT; TRC COARSE SAND TO NED PEBBLES (UP TO 2CM). 10YR 4/1 DARK GRAY; POORLY SORT; CLASTS RND; V. DENSE; SLIGHTLY PLASTIC; MOIST TO SLIGHTLY MOIST. | CLAY; SOME SILT; TRC COARSE SAND TO MED PEBBLES (UP TO 2CM). 10YR 4/1 DARK GRAY; POORLY SORT; CLASTS RND; V. DENSE; SLIGHTLY PLASTIC; MOIST TO SLIGHTLY MOIST. | CLAY; SOME SILT; TRC COARSE SAND TO MED PEBBLES (UP TO 2CM). 10YR 4/1 DARK GRAY; POORLY SORT; CLASTS RND; V. DENSE; SLIGHTLY PLASTIC; MOIST TO SLIGHTLY MOIST. | CLAY; TRC SILT; TRC COARSE SAND TO MED PEBBLES (UP TO 2CM). 10YR 4/1 DARK GRAY; POORLY SORT; CLASTS RND; V. DENSE; V. PLASTIC; MOIST TO WET. | CLAY; TRC SILT; TRC COARSE SAND TO MED PEBBLES (UP TO 2CM). 10YR 4/1 DARK GRAY; POORLY SORT; CLASTS RND; V. DENSE; V. PLASTIC; MOIST TO WET. | CLAY; TRC SILT; TRC COARSE SAND TO WED PEBBLES (UP TO 2CM). 10YR 4/1 DARK GRAY; POORLY SORT; CLASTS RND; V. DEWSE; V. PLASTIC; MOIST TO WET. | CLAY; TRC SILT; TRC COARSE SAND TO MED PEBBLES (UP TO 2CM). 10YR 4/1 DARK GRAY; POORLY SORT; CLASTS RND; V. DENSE; V. 15' LENSE OF CLAYEY GRAVEL; V. FINE TO MED PEBBLES; SOME SAND. 10YR 4/1 DARK GRAY; POORLY SORT; RND TO SUBR; DENSE; NON-PLASTIC; WET TO SAT. | CLAY; TRC SILT; TRC COARSE SAND TO MED PEBBLES (UP TO 2CM). 10yr 4/1 Dark gray; poorly sort; clasts RND; v. Dense; v. Plastic; moist to Wet. | AQUIFER MATERIAL. GRAVEL; V.FINE TO V. COARSE PEBBLES; SOME V. FINE TO COARSE SAND; TRC SILT; TRC CLAY. 10YR 4/1 - 5/1 DARK GRAY TO GRAY; V. POORLY SORT; RWD TO SUBR; LOOSE; NOW-PLASTIC; SAT. |
| LITHOLOGIC SYMBOLS | | | | | | | | | | 800 CC 800 CC 800 CC |
| SOIL TYPE L (USCS) | ಕ | ರ | ಠ | ಕ | ಕ | ಕ | ರ | ರ 9 | ಕ | 3 |
| RECOVERY (FT) | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 1.0 |
| BOTTOM SAMPLE (FT BLS) | 26.0 | 28.0 | 30.0 | 32.0 | 34.0 | 36.0 | 38.0 | 40.0 | 42.0 | 64.0 |
| TOP OF SAMPLE (FT BLS) | 24.0 | 26.0 | 28.0 | 30.0 | 32.0 | 34.0 | 36.0 | 38.0 | 40.0 | 42.0 |
| BLOW | 15-20-29 | 11-16-25 | 12-20-30 | 15-23-40 | 11-28-38 | 16-25-30 | 13-18-28 | 15-26-32 | 15-26-32 | 12-20-35 |
| SAMPLE | \$81-2-7 | SB1-2-8 | SB1-2-9 | SB1-2-10 | SB1-2-11 | SB1-2-12 | \$81-2-13 | \$81-2-14 | SB1-2-15 | S81-2-16 |
| DEPTH (FT BLS) | 24.0 | 26.0 | 28.0 | 30.0 | 32.0 | 34.0 | 36.0 | 38.0 | 40.0 | 42.0 |

INDIANA ANG SITE INVESTIGATION, FORT WAYNE, INDIANA SOIL BORING LOG

SOIL BORING NO.: S81-3 SUPERVISORY GEOLOGIST: KATE FOX LOG BOCK/PG. NO.: 4/4-10 DRILLING STARTED: 8/28/90 BORING COMPLETED: 8/28/90

LAND SURFACE ELEVATION: 805.31 MSL TOTAL DEPTH DRILLED: 44 BLS TOTAL DEPTH ELEVATION: 761.31 MSL

DRILLING COMPANY: MATHES ENV. SERV. DRILLER: K. BUNSELNEYER RIG TYPE: CHE - 550

| ٠. | | | _ | | | | > | 14 | •. | | | |
|---------------------------|------------------------------|------|------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---|
| j | HMU RESULTS (PPM) | | • | • | 0 | 0 | 5-10 | 1-2 | <u>-</u> | ni - | 'n; | |
| | LEL RESULTS X | | BK® | BKG | SKG | 8 8 | EK (S) | 98 | e K¢0 | 8 | | |
| | LITHOLOGIC DESCRIPTION | | BROWN CLAY | CLAY; SOME SILT; SOME FINE TO COARSE SAND. 2.5Y 5/4 LIGHT OLIVE BROWN; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; MOIST. | CLAY; SOME SILT; SOME FINE TO COARSE SAND. 2.5Y 5/4 LIGHT OLIVE BROWN MOTTLED WITH 10YR 6/8 BROWNISH YELLOW; POORLY SORT; RND; DENSE; PLASTIC; MOIST. | GRADATION FROM BROWN TO BLUE CLAY. NO SAMPLE RECORDED. | CLAY; SOME SILT; TRC FINE TO COARSE GRAVEL (UP TO 1CM). 10YR 4/1 DARK GRAY; POORLY SORT; RND; DENSE; PLASTIC; SLIGHTLY MOIST. | CLAY; SOME SILT; SOME FINE TO COARSE SAND; POCKETS OF CLAY. 2.5Y 5/4 LIGHT OLIVE BROAN; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; SLIGHTLY MOIST. | CLAY; SOME SILT; SOME FINE TO CDARSE SAND; POCKETS OF CLAY. 2.57 5/4 LIGHT OLIVE BROWN; POORLY SORT; RND; DENSE; SLIGHTLY POIST. | CLAY, BLUE; SOME COARSE SAND TO FINE GRAVEL. 2.5Y 5/4 LIGHT OLIVE BROWN; POORLY SORT; RHD; DENSE; SLIGHTLY PLASTIC; MOIST. | CLAY, BLUE; SOME COARSE SAND TO FINE GRAVEL. 2.5Y 5/4 LIGHT OLIVE BROWN; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; MOIST. | |
| | LITHOLOGIC SYNBOLS | | | | | | | | | | | |
| | SOIL TYPE ((USCS) | | ಕ | ಕ | ಕ | ಕ | ಕ | ರ | ಕ | ರ | ರ | _ |
| | RECOVERY (FT) | N/A | ¥ | 1.5 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 2.6 | 1.83 | |
| | BOTTON SAMPLE (FT BLS) | 10.0 | 12.0 | 14.0 | 16.0 | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 | 28.0 | |
| | TOP OF SAMPLE (FT BLS) | N/A | 10.0 | 12.0 | 14.0 | 16.0 | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 | |
| 3/28/90 | BLOW | N/A | 9-17-22 | 6-10-13 | 4-7-14 | 15-24-31 | 15-21-29 | 18-26-30 | 15-23-40 | 13-23-34 | 14-20-31 | |
| BORING COMPLETED: 8/28/90 | SAMPLE | N/A | SB1-3-1 | se1-3-2 | SB1-3-3 | \$81-3-4 | set-3-5 | \$81-3-6 | \$81-3-7 | SB1-3-8 | \$61-3-9 | |
| BORING | DEPTH (FT BLS) | 0.0 | 10.0 | 12.0 | 14.0 | 9. 9. 9. | -2 8 6 | 20.0 | 22.0 | 24.0 | 26.0 | |
| | | | | | | _ | _ | | | | | |

| 13 | | | | | | | | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - 197 |) = - | 2 | والمراقعة المراقعة | - | •• | · | سنه | - |
| RESULTS (PPH) | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 |
| RESULTS | BK GD | BKG | B KG | e KGD | BKGD | B K© | BKCD | B K@ |
| LITHOLOGIC DESCRIPTION | CLAY, BLUE; SOME COARSE SAND TO FINE GRAVEL. 2.5Y 5/4 LIGHT OLIVE BROWN; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; MOIST. | CLAY, BLUE; SOME COARSE SAND TO FINE GRAVEL. 2.5Y 5/4 LIGHT OLIVE BROWN; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; MOIST. | CLAY, BLUE; SOME COARSE SAND TO FINE GRAVEL. 2.5Y 5/4 LIGHT OLIVE BROWN; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; MOIST. | CLAY, BLUE; SOME COARSE SAND TO FINE GRAVEL. 2.5Y 5/4 LIGHT OLIVE BROWN; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; MOIST. | CLAY, BLUE; SOME COARSE SAND TO FINE GRAVEL. 2.5Y 5/4 LIGHT OLIVE BROWN; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; MOIST. | CLAY, BLUE; SOME COARSE SAND TO FINE GRAVEL. 2.5Y 5/4 LIGHT OLIVE BROWN; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; MOIST. | CLAY, BLUE; SOME COARSE SAND TO FINE GRAVEL. 2.5Y 5/4 LIGHT OLIVE BROWN; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; MOIST. | GRAVEL; V. FINE PEBBLES TO SOME GRAVEL; SOME V. FINE TO COARSE SAND; TRC SILT. 10YR 4/1 DARK GRAY; POORLY SORT; RMD TO SUBR; LOOSE; NON-PLASTIC; SAT. |
| L I THOLOGI C SYMBOLS | | | | | | | | See 1997 |
| SOIL TYPE (USCS) | ಕ | ಕ | ಕ | ರ | ರ | ರ | ರ | 3 |
| RECOVERY (FT) | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 0.1 |
| BOTTOM SAMPLE (FT BLS) | 30.0 | 32.0 | 34.0 | 36.0 | 38.0 | 0.04 | 42.0 | 0.44 |
| TOP OF SAMPLE (FT BLS) | 28.0 | 30.0 | 32.0 | 34.0 | 36.0 | 38.0 | 40.0 | 42.0 |
| BLOW | 13-19-32 | 15-20-30 | 11-28-38 | 10-15-20 | 12-19-25 | 12-19-25 | 10-16-25 | 12-20-35 |
| SAMPLE () AUMBER | SB1-3-10 | \$81-3-11 | \$81-3-12 | 34.0 SB1-3-13 | \$81-3-14 | \$81-3-15 | SB1-3-16 | 581-3-17 |
| DEPTH (FT BLS) | 28.0 | 30.0 | 32.0 | 34.0 | 36.0 | 38.0 | 40.0 | ç; B-6 |

n'

INDIANA ANG SITE INVESTIGATION, FORT WAYNE, INDIANA SOIL BORING LOG

| | i " | ı > | >- | > - | 200 |
|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| /. SERV. | RESULTS (PPR) | 150 | £ | # | # |
| WATHES ENVEYER | LEL RESULTS X | 8K 60 | BKGD | BKGD | EK CO |
| LAND SURFACE ELEVATION: 803.46 MSL TOTAL DEPTH DRILLED: 14 BLS TOTAL DEPTH ELEVATION: 789.46 MSL RIG TYPE: CME - 550 | LITHOLOGIC DESCRIPTION | CLAY; SOME SILT; SOME V. FINE TO V. COARSE SAND; TRC TO SOME V. FINE TO COARSE PEBBLES. 10YR 4/2 - 4/3 DARK GRAYISH BROWN TO BROWN MOTTLED WITH 10YR 4/6 - 3/6 DAR YELLOWISH BROWN; POORLY SORT; RND TO SUBA; DENSE; SLIGHTLY PLASTIC; SLIGHTLY MOIST. | CLAY; SOME SILT; SOME V. FINE TO V. COARSE SAND; TRC TO SOME V. FINE TO COARSE PEBBLES. 10YR 4/2 - 4/3 DARK GRATISH BROWN TO BROWN MOTTLED WITH 10YR 4/1 DARK GRAY; POORLY SORT; RND TO SUBA; DENSE; PLASTIC; MOIST. | CLAY; SOME SILT; SOME V. FINE TO V. COARSE SAMD; TRC TO SOME V. FINE TO COARSE PEBBLES. 5Y 4/1 - 5/1 DARK GRAY TO GRAY WITH CHUNKS THAT APPEARS TO BE CHARRED WOOD; POORLY SORT; RND TO SUBA; DENSE; PLASTIC; MOIST. | CLAY; SOME SILT; SOME V. FIME TO V. COARSE SAND; TRC TO SOME V. FIME TO COARSE PEBBLES. 10YR 4/3 - 4/4 BROWN TO DARK YELLOWISH BROWN; POORLY SORT; RND TO SUBA; DENSE; PLASTIC; MOIST. |
| LAND SURFACE ELEVATION: 803. 10TAL DEPTH DRILLED: 14 BLS 10TAL DEPTH ELEVATION: 789.4 | LITHOLOGIC Symbols | | | | |
| LAND SUR TOTAL DE TOTAL DE | SOIL TYPE I (USCS) | ಕ | ಕ | ರ | ರ |
| | RECOVERY (F1) | 1.2 | 1.2 | 1.3 | 4.6 |
| | BOTTON SAMPLE (FT BLS) | 2.0 | 10.0 | 12.0 | 14.0 |
| XO | TOP OF SAMPLE (FT BLS) | 0.0 | 8 | 10.0 | 12.0 |
| SOIL BORING NO.: SB1-4 SLPERVISORY GEOLOGIST: KATE FOX LOG BOOK/PG. NO. : 4/39-40 DRILLING STARTED: 9/8/90 BORING COMPLETED: 9/8/90 | BLOW | 15-13-19 | 5-9-19 | 6-11-19 | 16-24-36 |
| SOIL BORING NO.: SB1-4 SUPERVISORY GEOLOGIST: KATI LOG BOOK/PG. NO. : 4/39-40 DRILLING STARTED: 9/8/90 BORING COMPLETED: 9/8/90 | SAMPLE | SB1-4-1 | s81-4-2 | SB1-4-3 | \$81-4-4 16-24-36 |
| SOIL BOR SUPERVIS LOG BOOK DRILLING BORING C | DEPTH (FT BLS) | 0.0 | 8 .0 | 10.0 | 0. 2. P. 7 |

| Site Fil | Science Applications International Corporation No03-0349-XX CountyALCN | | | | | 6] - | 5 | | Page of |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------|-------------|-------------|--------------|-----------|----------|----------------------------------------------------------------------------------|
| Site Fil | e Name FT WAYNE FANGE | | | | | | | | ompletion Depth_40 |
| | No N/A | | | | | | | | Rotary Depth <u>N/A</u> |
| | ingle <u>DSSIAN IND</u> Sec. 9 T. 29 R | 12 | Date | : St | art _ | 14 | /// | 9/ | Finish |
| Boring | Location N 1267198.659 | | | | AM | PLES | 3 |) [| Personnel G - Tom LIBATINEZLY |
| Drilling | E 634544, 499 | | ş | 2 | ecove | 35.3 | 10 | J. Car | G-TOM LEATHERLY D-TIM CRAVE H-DAVE JULIUS |
| Elev. | DESCRIPTION | Depth | į | apute | a a digital | 6 2 | Valvos | | н - |
| - | | in feet | s (i) | 45 | 3 | 7 | 2 | | REMARKS 55- SPLIT S POON |
| | () [FIL] GRAVELLY SILT, SOME CLAY, SOME COBBLES (SOME CONSTRUCTION DEBEIS; LOOSELY COMPACTED BUT ROLLS INFO SHORT CORDS OF SILT & CLAY WHICH CRUMBLE EASILY, BLOWN 10 YR 3/3. | | 9 | 8 | | 7 | 2-2-8 | 8 | N - 0 - 0 - 0 - 0 - 0 |
| | | 5,0- | | | | | | | Siac NO TOH ND |
| - | (DECI] CLAY AND SILT, SOME GRAVEL . 1048 3/1 MOTITLED | - - - - - - - - - | (P | 5 5 | X | 7 | 5-8-3 | 100- 300 | DLAB ANAL: 136NEWG 110 ppb TOWNER 180 ppb SVOC 1900 ppb LEAD 27.4 ppm TH NO |
| - | 3 [my sich & CLAY, TRC. V. CSE SAND. REC.; 1:1/ 104 R.311 V. Dr G744. | | (3) | \$ 5 | X | У | 1-3.5 | 190-250 | 1 |
| - | D[M] SILT AND CLAY, SOME GRAVEL, JOYR 3/; 1. DK GRAY, TRC V. CSE SAND. REC: 1.25' | 20 | ④ | દ | X | pi | 5-1-15 | 250 | • |
| | (5) [m] SILT & CLAY Some V. CGE SAUD, DENSE & COMPACTED AND CRUMOUS W/EFFORT. REC: 1.3' 10 YR 3/1 V. DE GRAY. | السلسلسة | <u></u> | 55 | X | N | 9-17-20 | 10:30 | Bb = 2-5 PAm |
| - | (B)[ML) SILT & CLAY, GRAVEL, V. CSE SAND. DENSE. GAPACIO PODELY SORTED. REC: 1.2/ 10423/1 v. DC GRAY | 30.0 | (b) | 45 | X | ħi | re-19-9 | 700 | |
| | DIMIJ SILT & CLAY, U. CSE SAND, SOME GRANEL. 104R4/1 DIL GRAY. B-8 | 350 | Ð | 45 | X | у | 4-7-10 | ď | (1) 1/46 MAL: (140 73.6 jim 5001 ND VX ND TH ND |

| Site Fil | No63-0349-XX CountyA/LEN | | | | 3 | ring SB i SB i- | -6 | • | Page of initor Well No /A |
|----------|---------------------------------------------------------------------------------------------------------------|------------------|-----------------|-------------|-------------|-----------------------|---------|------|-----------------------------------|
| Site Fil | Name FT WAYNE TANGE | | | | | | | | ompletion Depth 36.5 |
| Fed. ID | . No | | | | | | | _ | Rotary Depth N/A |
| Quadra | ingle OSSIAN IND Sec. 9 T. 29 R | | | | | | | | |
| | Location 1267376,494 | _ | _ | | | PLE: | | | Personnei |
| | E 634536,918 | | | | A Sec | 1515 | 1 | | G-TOM WEATHELY D-TIM CRANK |
| Drilling | Equipment CIME 75. HSA: 140 16 HAMMER | > | \$ | 1 to | P P | Had/ | 3 | | H - DAVE JULIUS H - |
| Elev. | DESCRIPTION | Depth in feet | 3 | Sem | Serre | 3 | > | T § | REMARKS |
| E | DANY SILT & CLAY, SOME PEBBES (5mm), TRC V. (SE SAND, 10 YR 3/3 BROWN; LOSSELY COMPACED; SOME | | 0 | 95 | X | y | 3-5-5 | . 0 | SS-SPLIT SPOON BG-BACKGROUND |
| F | FING (GRASS ROOTS) | | | | | | m | | (A3 BUAL) |
| E | | | | | | | | | THE ND SUCC NO |
| F | _ | -5 0 - | | | | | | | vcc pd |
| E | | | | | | | | | |
| E | | FE | | | | | | | |
| _ | 3) TOP. 5/ [ML] SILT & CLAY, U. CSG SAND, SMALL GRAV. EL (2mm) ABOUT 5%. BROWN; SUBA. REC: 110' | | • | | | | 0/ | -70 | DAG ANNE: |
| F | FL (amm) ABOUT 5%, BROWN; SUBA, REC; 1.0' ROTTOM E'S TOW TO LITTLE CLAY LOVE 4/1 FRAY' (mm- | | (3) | 绐 | \succeq | У | 5-7-10 | So - | TPH ND |
| F | BOTTOM, 5'[M] SICT & CLAY. 10 YR 4/1 GRAY; COM- PACTED BUT CRUMBLES EASILY. | | | | | | 1. | - 1 | Skoc ND Yes ND |
| F | (3, [ML] SILT & CLAY, LARGER GRANCLS, TRL V. CSE SAND SIZE PARTICLES (RND) WHICH ARE USEY DK GRAY. | | (3) | 45 | X | y | S-S-6 | 90 | BLAB ANN: TO LEAD THE PEN HAS PEN |
| E | 10 YR 3/3 BROWN DONSLY COMPACTED AND CRUMBUS ONLY AFTER ROLLIAL FOR ABOUT 15 SECONDS. | 150 | (%) | 1 | | / | À | B | 1794 mD |
| <u> </u> | REC; .11 | | | | | | | | Suc hij Voc Na |
| Ē | | | | | | | | | |
| | 1) [mi] sind CLAY W/ TRL GRAYELS (2-3mm). NYR 4/2 | -30,R | | | | | 81-1 | | |
| Ė | A) MILY SIT OF CLAY W/ TRL GRAYELS (2-3mm). NOVR 4/2 BROWN; CRUMBIE'S EASILY; V. DENSE & COMPACTED, REC: 1:11 | | 3 | 5 5. | \succeq | Ŋ | 81-81-9 | 35 | |
| F | | | | | | | | | |
| F | | | 1 | | | | 20 | | |
| E | (B)[mi] SILT & CLAY TRE GRAVEL (2mm). 104R3/1 | -)×.0- | A | 45 | X | V | 1-6- | 0 | BG-= 2-3 APM |
| E | V. DK GRAY; DENSELY LOMPACTED - BREAKS W/ PRES- SURE; SUBA, REC: 1.1' | | (e) | 9 7 | | | 7 | | LEAD ID I JOHN |
| E | | <u> </u> | | | | | | | CN JOY |
| <u> </u> | 6) [ML] SILT & CLAY, TRE GRANVLES (2mm). 10483/ | 30.0 | 1 | | | | 8 | | Seac Ma |
| Ė | VIDE GRAY; SUBR TO SUBA; SI MOIST; PLASIC. | | F | 45 | \boxtimes | N | 4-8-8 | 86 | BG = 1 PPM |
| F | i : | | 1 | | | | | | |
| E | FIDE IN SAND SOME GRAVEL , 10 YR3/1 V. DK GRAY . BOTTOM INSTRUCT & CLAY . 10 YR 3/1 V. DK GRAY ; | | | | | | | | |
| F | DENSE; PLASTIC; SAT. REC; 1, 2 | 35.0 | 9 | 155 | abla | | 4-8-10 | 32 | LAD TIM |
| E | B-9 | F = | $ \mathcal{V} $ | 2 | | Y | 4 | , | TIH NO SUBC MD NOC NO |
| | | | 1 | 1 1 | : | | . ! | | |

| Site File | No. 03-0349 - XX County ALLEN | | | | Ĭ. | ring 31 56/ | · 1 | | Page of | |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|--------|-------------------|--------------|------|----------------------------------------------------------------------------------------------------------------|---|
| | Name FT WAYNE " IT NGB | | | | | | | | ompletion Depth 16.5 | |
| | No N/A | | | | | | | _ | Rotary Depth NA | |
| Quadra | ngle | <u> </u> | Date |): St | art , | _// | <u>/5</u> | 19/ | Finish | |
| Boring | Location N 1267247,629 | | | S | AM | PLE | S | | Personnel | |
| | E 634468.413 | | | | Overy | \$ 5. | Acres | (BM) | G-TOM WEATHRY D-TIM CRANK | |
| Drilling | Equipment CME 75; HSA; 14016 HAMP | NER | 5 | P Typ | le Rec | 4.3 | S sa | 0 | H - DAVE SULIUS H - | 4 |
| Elev. | DESCRIPTION | Depth in feet | S S | Samp | Seme | 45 | 7 | T | REMARKS | |
| | DIMIT SILT & CLAYATRO PEBBLIS , SOME CSE SAND, FINE 1200 15 MI SAMPLE, DK BROWN, SC MOIST, SUBR; SL. COMPACTED, REC: 1.01 (10 YR 413) | -25 | O | 4 ⁵ 7, | X | y | 5-3-3 | 86 | SS-SPLIT SADON BG-BACKGROUND DLABANALI LEAD IN TO FROM PARTS-160-380 APID YOU - FOSS. TAB LUNGAME TPH ND | |
| | [ML] SILT & CLAY, SOME GRAVEL, PEBBLES TO 9mm 10YR 3/3 DK BROWN, POOR SORT, DENSE; COM-P PACTED; NON-PLASTIC; V. S.L. MOIST. REL., 75' | 7.5 | ٨ | 55 | X | Y | ₹-3-€ | Bis | BANAL SH.I PAN 71-TICOPPO TPH 200 PPM VCC POSS lato Countries | |
| - | (3) TOP .4' [mi] SILT & CLAY, TRC PERBUS (3mm), 104R3/3 DK BROWN; COMPACTED; DEWSE; BOTTOM 1.0' [mi] SILT & CLAY, TRC SMALL PERBUS (2mm), 104R4/1 V. DK GRAY; DENSE; COM - PACTED; NOW-PLASTIC | -/50 -/75 | 3 | B | X | у | 8-10-4 | 198 | DEND 26.9 VOC pers les centen TPH ND SVOC ND | |
| | B-10 | | | | | | | | | |

| 3 | Science Applications International Corporation | | Fid | old | Bo | ring Bi | Lo - 6 | 9 | Page of |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|----------|--------|------------|-----------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------|
| | No. 03-6349-XX County ALLEN | | | | lo.Ć | Bl | 4-1 |)Mc | onitor Well No <u>N/A</u> |
| | Name FT WAYNE TANGE | | | | | | | | ompletion Depth 21-5 |
| Fed. ID | | | | | | | | | Rotary Depth NA |
| | ngle <u>(055/AN, IND</u> Sec. 9 T. 29 R | 12 | Date | | | | | _ | |
| Boring | Location N 1267161.329 | | \vdash | S | AM | PLE | S F I | | G - 10 M WERNEELY |
| Drilling | E 63444 1.327 Equipment CM5 75; HSA : 140 16 HAMMER | | ş | Type | Recov | 17.77 | 5 | D OF | D-TIM CRANK H-DAVE JULIUS |
| Elev. | DESCRIPTION | Depth in feet | Sample | Semme | Sample | 7 | ¥ > 2 | で言 | REMARKS |
| milin | DEMILY SILT, CLAY, SOME CSE SAND, TRC PEBBLES. SUBR TO SUBA. REC: .81 10 YR 4/3 DK BROWN | | 0 | 65 | X | У | 3-6-7 | R6 | SS-SPLIT SPOON BG-BACKGROUND DNR-DATA NOT EXCREDED PAS ANAL! LEAD 33.9 ppin |
| وروارو | DEMI] SILT & CLAY, SOME PERRIES (2mm), 10483/3 BROWN; CRUMBLES EASILY; SUBR TO SUBA; REC. 1.2 | 5.0 | @ | ર્કક | X | y | 3.5-6 | 90 | VOC - pess. labeaum SVOC ND TEH ND BG = 1 PPM (DIAB ANAL) LEAO 31.3 ppm |
| | (3) [ML] SILT & CLAY, JOME PEBBLES (2mm), 104 R 3/3 DE BROWN; DRY; NON-PLASTIC; CRUMBLES EASILY. REC: DWR (4) [ML] SILT & CLAY, SOME SUBA PEBBLES (4mm), 104 R3/, V. DK GRAY. DRY; CRUMBLE & EKILY; SL. COMPAG- ED. REC 1.5" | 15.0 | | 45 45 | DIE X | y | 1-10-15 7-15-29 | 1 28 | VOC - Possilab SVOC ND CCATRIN, TPH ND BG = 1 PPM 3 LABANAL! TI APM VOC POSSILAB TPH, SVOC NO CUSTRIN. BG = ± 1 PPM |
| | ED. REC 1.5. S)[MY SILT & CLAY, SOME PEBBLES (3 MM), 10 YR 3/3 DK GRCY; DEINSE; COMPACT; V. SL: PLASTIC. | 200 | 0 | 55 | X | y | 7-12-19 | 98 | LEAD 11. t VOC POSS. lab untam. |
| | B-11 |)S | | | | | | | SVOL MB TPH ND |

I

| Site File Fed. ID Quadra | No | | Boris Surf Aug | ng N ace er D : St | Elev epth ert | 31 29 -// | 9.5 | Ma Lc | | |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------|-----------------------------|---------------------|-----------------|----------|----------|-------------------------------------------------------------------------------------------------------------------------------|--|
| Boring | Location N 1267118,218 E 634547.588 | | - | , | AM | PLE: | tews! | Pro) | G FORM WEATHERLY D-TIM CRANK | |
| Drilling Elev. | Equipment CME 75: HSA: 14016 HAMM DESCRIPTION | MER Depth | of afor | regide Typ | ngte Rec | 46,4 | Values B | - ID | H - DAVE JULIUS H - | |
| | DIMIT SILT & CLAY, LARGE COBBUS (9cm), SOME V. CSE SAND. ICYR 3/4 & 3/3, POSSIBLY CONSTRUCTION DEBRIS PRESCRIT, REC: 1,25 | in fact | <u>s</u> | 5 5 | | y | 3.5-9 M | 1 88 | REMARKS 55 - SPLIT SPOON BG - BACKGLOWN D DAB ANAL: LEAD 21. 6 PPM TOWNERS: 25C PPD PAH: 500-1300 VCC 90% lub Contam. | |
| | DIMI SILT & CLAY, SOME GRAVEL (6M), STRC V. USE SAND, 10YR 3/3 BK BOWN, SI COMPACION NON-PLASTIC; POOR SOLT, REC: 91' | 7.5 | (3) | 45 | X | У | 2-3-7 | 98 | DLAB ANAL: LEAD 9 PPM TOLUBE: 170 PID VOC: PESS lab WOLL DATEM. SYOC ND | |
| | Binibili & CLAY, TRC PEBBLES (2mm), 10YR 3/2.5- DIE BROWN; DENSE; SL: COMPACTED; CRUMBUS W/EFFORT; BREAKS APART; PORRLY SART. REC! 1.0' | /0,0 /,),5 | 3 | 65 | X | y | 6-13-17 | 98 | BG = PPM (3) LAB ANAL: TOWERE 1, DECEPPE VOC: PESS. lab CONTAM. SVEC: ND | |
| | B-12 | | | | | | | | | |

| Site Fil | No. <u>C3-0349-XX</u> County <u>ALL EN</u> | 1 | | | 26 | 1-1 | Log O ∑) M | Page of |
|-----------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------|----------|-------------------|----------|------------------|-------------------------------------------------|
| Site Fil | Name FT WAYNE " TANGE | | | | | | | Completion Depth |
| Fed. 1D | No. N/A | | | | | | | Rotary Depth <u>N/4</u> |
| Quadra | ingle <u>055/AN IND</u> Sec. 9 T. 29 R | 12 | Date | : Sta | rt _ | <u> </u> | 4/9/ | Finish |
| Boring | Location N +26-7118:318 1267169.512 | | | S | AMP | £S | | Personnel |
| | E 134547,588 634386,429 | | ٠ | 2 | Parent AL PSIA | | 44/ | G - TOM WCONERLY D - TIM CRANK |
| Drilling | Equipment CME 75; HSA; HO 16 HAMMER | | 2 | 4 | Pe Pe | \$ | 4 | H-DAVE JULIUS H- |
| Elev. | DESCRIPTION | Depth in feet | S | 5 | | | T | REMARKS |
| | (DEM) SILT & CLAY, SOME CSE TO V. CSC SAND. 10YR 3/3 DK BROWN, TRC PEBBLES, REC; 65' | 111 | 0 | 55 | \mathbb{X}_{0} | /[: | 7 7 | |
| E | <u> </u> | - 극 | | | ľ | - | 8 | DIR DATA NOT BELOWED |
| E | GUADA AUGARIA FAMILIA FAMILIA | | | | | | | TOLVENE 160 P.O.D |
| E | SANDYSOME PERBLES. DK BROWN; MOIST, RUC: 1.05' (1983) | 50 | (D) | 45 | ZI, | | 5-7 | PAH 300-164.700 POSTUDA NOS 700 LAS ANALY PAN |
| _ | [| . 4 | | 1 | 7 | | | TP14 1,400 pplo |
| | E | Ŧ | | | | l | | roluche 160 pob possIAB Vocs |
| - | Brown; DENSE; MOIST; PRASTIC; SUBR. | 10.0- | | + | , | , ! | AK O | (2) LAB ANAL |
| | Brown; prise; waist; rotalic, sour, | Ħ | 9 | 45 | ¥۱ | | a × | LEAD 10.7 PPM |
| E | \ | · H | | | | | | PAH 81-94 ppb |
| | \$ TOP:3' 104R 3/3 DK BROWN. | 15,0 | | \sqcup | | | 27.7 | ANSS. LABYX, |
| | BOTTOM 1.2 [MI] SILT & CLAY, SOME PEBBUS (2MM) | / = = = = = = = = = = = = = = = = = = = | (| 4, | X) | / | 2 - 4 2 - 4 | 14 LAS 71.8 |
| | 10YR4/1; V. DENSE; SUBR. | - ∃ | | | | | | TOUENE 640 POS LAB VICES |
| | DEGRAY REC. 1.51 | _ = | | | | | | TPH NO STILL NO |
| Ē | [[YM] SILT AND CLAY, TRC PEBBUTS (4mm). 10/184/ | <i>)</i> 4,0= | (E) | 45 | X. | / | 7-01-2 | 15 LEAD 10.7 TOWENE 370 |
| E | (5) LYML SILT AND CLAY, TRC PEBBLES (4mm), 10/RA/ C V. DK GRAY; DENSE; V. SL: MOIST; NON-PLASTICE REC; 1,35; | . 크 | , | f | 7 | ı | 7 | DOSS LAB VICS |
| | E E | = | | | | l | | TPH ND Svoc No |
| Ē | <u> </u> | 25,0 | | Ì | | Ì | | |
| | | 7 | | | | ı | | |
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INDIANA ANG SITE INVESTIGATION, FORT WAYNE, INDIANA SOIL BORING LOG

SITE 2

| DRILLING COMPANY: MATHES ENV. SERV. DRILLER: K. BUNSELNEYER RIG TYPE: CNE - 550 |
|---------------------------------------------------------------------------------------------------------------------------------------------------|
| LAND SURFACE ELEVATION: 800.23 MSL TOTAL DEPTH DRILLED: 40 BLS TOTAL DEPTH ELEVATION: 760.23 MSL |
| SOIL BORING NO.: SB2-1 SUPERVISORY GEOLOGIST: KATE FOX LOG BOOK/PG. NO. : 4/18-24 DRILLING STARTED: 8/28/90 BORING COMPLETED: 8/28/90 |

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| RESULTS (PPN) | ~ | o | 0 | 0 | • | ¥ | 0 |
| LEL RESULTS X | BKGD | #KG | BK GD | BKGD | BKGD | BK © | BKG |
| LITHOLOGIC DESCRIPTION | GRAVEL; SANDY; FINE SAND TO COARSE PEBBLES; TRC CLASTS (UP TO SCM). 10YR 5/2 GRAYISH BROWN; POORLY SORT; RND; LOGSE; NON-PLASTIC; SLIGHTLY MOIST. | 2-3':GRAVEL; SANDY; FINE SAND TO COARSE PEBBLES; TRC CLASTS (UP TO 5CM). 10YR 5/2 GRAYISH BROWN; POCRLY SORT; RND; LOOSE; NON-PLASTIC; SLIGHTLY WOIST. 3-4': GRAVELLY CLAY; SOME SILT; TRC FINE TO COARSE SAND. 2.5Y 5/2 - 5Y 4/1 GRAYISH BROWN TO DARK GRAY; POCRLY SORT; CLASTS RND (UP TO 2CM); SLIGHTLY DENSE; SLIGHTLY PLASTIC; SLIGHTLY WOIST. CLAY; SOME SILT; SOME FINE TO COARSE SAND. 2.5Y 5/4 LIGHT OLIVE BROWN; MOIST. | GRAVELLY CLAY; SOME SILT; TRC FINE TO COARSE SAND, 2.5Y 5/2 -5Y 4/1 GRAYISH BROWN TO DARK GRAY; POORLY SORT; CLASTS RND; (UP TO 2CM); SLIGHTLY DENSE; SLIGHTLY PLASTIC; SLIGHTLY MOIST. CLAY; SOME SILT; SOME FINE TO COARSE SAND. 2.5Y 5/4 LIGHT OLIVE BROWN; MOIST. | CLAY; TRC TO SOME SILT; SOME COARSE SAND TO FINE TO MED PEBBLES. 5Y 4/3 OLIVE MOTTLED WITH BLACK CLAY 2.5Y 2/0; POORLY SORT; RND TO SUBR (SAND LESS ROUNDED); DENSE; PLASTIC; MOIST | CLAY; TRC TO SOME SILT; SOME COARSE SAND TO FINE TO MED PEBBLES. 10YR 5/4 YELLOWISH BROWN MOTTLED WITH 10YR 5/1 GRAY; POORLY SORT; RND TO SUBR (SAND LESS ROLNDED); DENSE; PLASTIC; MOIST. | CLAY; TRC TO SOME SILT; SONE COARSE SAND TO FINE TO WED PEBBLES. SALT AND PEPPER COLOR; POORLY SORT POCKETS OF FINE TO COARSE SAND; RND TO SUBR (SAND LESS ROLMDED); DENSE; PLASTIC; MOIST. | CLAY; TRC TO SOME SILT; SOME COARSE SAMO TO FINE TO MED PEBBLES. SALT AND PEPPER COLOR; POORLY SORT; RND TO SUBR (SAMD LESS ROUNDED); DENSE; PLASTIC; MOIST. |
| LITHOLOGIC SYMBOLS | 20 12 0 0 20 12 0 0 20 12 0 0 | | | | | | |
| SOIL TYPE (USCS) | 3 | ਰੋ ਹ | ಕ | ಕ | ರ | ಕ | ರ |
| RECOVERY (FT) | 1.2 | 1.2 | m. | 1.3 | X | 1.5 | 1.5 |
| BOTTOM SAMPLE (FT BLS) | 2.0 | 0. | 6.0 | 9 .0 | 10.0 | 12.0 | 14.0 |
| TOP OF SAMPLE (FT BLS) | 0.0 | 2.0 | 0.4 | 6.0 | 8.0 | 10.0 | 12.0 |
| BLOW | 18-18-17 | 5-8-10 | 6-10-12 | 11-13-14 | 14-20-23 | 8-16-23 | 14-22-37 |
| SAMPLE | SB2-1-1 | SB2-1-2 | S82-1-3 | SB2-1-4 | SB2-1-5 | SB2-1-6 | SB2-1-7 |
| DEPTH (FT BLS) | 0.0 | 5.0 | 4.0 | 0.9 | 0.0 | 10.0 | 12.0 |

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| RESULTS (PPN) | 0 | 0 | 0 | • | * | 0 | 0-1 | • | • | 0 |
| LEL RESULTS | ЭКСО | BKGD | BKG | BKGD | BKGD | B K@ | BKGC | BK© | BKGD | BK GO |
| LITHOLOGIC DESCRIPTION | CLAY; SOME SILT; SOME FINE TO V. COARSE SAMD; TRC FINE PEBBLES. 10YR 4/4 DARK YELLOMISH BROWN MOTTLED WITH 10YR 5/1 GRAY; POORLY SORT; RND; DENSE, PLASTIC, MOIST. | CLAY; TRC TO SOME SILT; SOME V. FINE TO V. COARSE SAND; TRC FINE TO MED PEBBLES (UP TO 1CM). 10YR 4/1 DARK GRAY; POCRLY SORT; RND; DENSE, PLASTIC, MOIST. | CLAY; TRC TO SOME SILT; SOME V. FINE TO V. COARSE SAND; TRC FINE TO MED PEBBLES (UP TO 1CM). 10YR 4/1 DARK GRAY; POORLY SORT; RND; DENSE, PLASTIC, MOIST. | CLAY; TRC TO SOME SILT; SOME V. FINE TO V. COARSE SAND; TRC FINE TO WED PEBBLES (UP TO 10M). 10YR 4/1 DARK GRAY; POORLY SORT; RND; DENSE, PLASTIC, MOIST. | CLAY; TRC TO SOME SILT; SOME V. FINE TO V. COARSE SAND; TRC FINE TO WED PEBBLES (UP TO 1CM). 10YR 4/1 DARK GRAY; POCRLY SORT; RND; DENSE, PLASTIC, MOIST. | CLAY; TRC TO SOME SILT; SOME V. FINE TO V. COARSE SAND; TRC FINE TO MED PEBBLES (UP TO 1CM). 10YR 4/1 DARK GRAY; POCRLY SORT; RND; DENSE, PLASTIC, NOIST. | CLAY; TRC TO SOME SILT; SOME V. FINE TO V. COARSE SAND; TRC FINE TO WED PEBBLES (UP TO 1CH). 10YR 4/1 DARK GRAY; POORLY SORT; RND; DENSE, PLASTIC, MOIST. | CLAY; TRC TO SOME SILT; SOME V. FINE TO V. COARSE SAND; TRC FINE TO WED PEBBLES (UP TO 1CM). 10YR 4/1 DARK GRAY; POORLY SORT; RND; DENSE, PLASTIC, MOIST. | CLAY; TRC TO SOME SILT; SOME V. FINE TO V. COARSE SAND; TRC FINE TO MED PEBBLES (UP TO ÍGH). 10YR 4/1 DARK GRAY; POORLY SORT; RND; DENSE, PLASTIC, MOIST. | CLAY; TRC TO SOME SILT; SOME V. FINE TO V. COARSE SAND; TRC FINE TO MED PERRIES (HP TO 1CM). 10VP 4/1 DARK GRAY: POTELY SORT. |
| LITHOLOGIC Symbols | | | | | | | | | | |
| SOIL TYPE (USCS) | ರ | ರ | ಕ | ರ | ಕ | ಕ | ರ | ಕ | ಕ | ಕ |
| RECOVERY (FT) | 1.83 | 1.83 | æ | 1.83 | æ | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 |
| BOTTON SAMPLE (FT BLS) | 16.0 | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 | 28.0 | 30.0 | 32.0 | 34.0 |
| TOP OF SAMPLE (FT BLS) | 14.0 | 16.0 | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 | 28.0 | 30.0 | 32.0 |
| BLOW | 24-40-55 | 20-24-32 | 13-19-25 | 11-17-25 | 12-15-27 | 10-15-25 | 12-16-29 | 13-17-27 | 11-18-18 | 15-17-22 |
| SAMPLE | SB2-1-8 | SB2-1-9 | SB2-1-10 | SB2-1-11 | SB2-1-12 | SB2-1-13 | SB2-1-14 | SB2-1-15 | SB2-1-16 | SB2-1-17 |
| DEPTH S (FT BLS) N | - | | | | | | | | | |

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| RESULTS (PPM) | 0 | • | • | | | |
| LEL RESULTS X | BK © | B KG | 9K 69 | | | |
| LITHOLOGIC DESCRIPTION | CLAY; TRC TO SOME SILT; SOME V. FINE TO V. COARSE SAND; TRC FINE TO MED PEBBLES (UP TO 1CM). 10YR 4/1 DARK GRAY; POORLY SORT; RND; DENSE, PLASTIC, MOIST. | CLAY; TRC TO SOME SILT; SOME V. FINE TO V. COARSE SAND; TRC FINE TO MED PEBBLES (UP TO 1CM). 10YR 4/1 DARK GRAY; POORLY SORT; RND; DENSE, PLASTIC, MOIST. | 0-3" : CLAY; TRC TO SOME SILT; SOME V. FINE TO V. COARSE SAND; TRC FINE TO WED PEBBLES (UP TO 1CH). 10YR 4/1 DARK GRAY; | SOME IN TO COARSE SAND; TRC SILC, MUISI. 3-9" : AQUIFER MATERIAL. GRAVEL; V. FINE TO COARSE PEBBLES; SOME FINE TO COARSE SAND; TRC SILT. 10YR 5/1 GRAY; POORLY SORT; | KND TO SUBK; LOUSE, MUN-PLASILL; SAT. 9-15": CLAY; SOME TO AND V. FINE SAND; SOME SILT; TRC COARSE SAND TO MED PEBBLES. 10YR 4/1 DARK GRAP; POORLY SORT; SUBR TO BAND: V. DENSE: MON TO SIGHTLY PLASTIC: LET. | |
| SYMBOLS | | | | 900 900 900 | χ ο: •: | |
| SOIL TYPE LI (USCS) | ช | ರ | ರ | 3 | ಕ | |
| RECOVERY (FT) | 1.83 | 1.83 | 1.2 | | | |
| BOTTOM SAMPLE (FT BLS) | 36.0 | 38.0 | 40.0 | | | |
| TOP OF SAMPLE (FT BLS) | 34.0 | 36.0 | 38.0 | | | |
| BLOW | 34.0 \$82-1-18 13-17-27 | 6-8-12 | 38.0 s82-1-20 14-45-53 | | | |
| SAMPLE | 82-1-18 | 36.0 SB2-1-19 | B2-1-20 | | | |
| DEPTH (FT BLS) | 34.0 \$ | 36.0 | 38.0 \$ | | | |

INDIANA ANG SITE INVESTIGATION, FORT WAYNE, INDIANA SOIL BORING LOG

LAND SURFACE ELEVATION: 800.16 MSL TOTAL DEPTH DRILLED: 2 BLS TOTAL DEPTH ELEVATION: 798.16 MSL

DRILLING COMPANY: MATHES ENV. SERV. DRILLER: K. BUNSELMEYER RIG TYPE: CNE - 550

SOIL BORING NO.: SB2-2 SUPERVISORY GEOLOGIST: KATE FOX LOG BOOK/PG. NO. : 4/18-24 DRILLING STARTED: 8/30/90 BORING COMPLETED: 8/30/90

| DEPTH (FT BLS) | SAMPLE () NUMBER | BLOW | TOP OF SAMPLE (FT BLS) | BOTTON SAMPLE (FT BLS) | RECOVERY (FT) | SOIL TYPE (USCS) | LITHOLOGIC SYMBOLS | LITHOLOGIC DESCRIPTION | LEL RESULTS X | HHU RESULTS (PPM) | di Seleta |
|-------------------|---------------------|----------|------------------------------|------------------------------|------------------|------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------|--------------|
| 0.0 | \$82-2-1 | 28-14-12 | 0.0 | 2.0 | 1.2 | 3 | | SANDY GRAVEL; FINE SAND TO V. COARSE PEBBLES (UP TO 5CM). 2.57 W4/ DARK GRAY: POORLY SORT: RND TO SIMR: LONSE: MON- | BKGD | ± | |

SOIL BORING NO.: SB2-3 SUPERVISORY GEOLOGIST: KATE FOX LOG BOOK/PG. NO. : 4/26 DRILLING STARTED: 8/30/90 BORING COMPLETED: 8/30/90

LAND SURFACE ELEVATION: 805.31 MSL TOTAL DEPTH DRILLED: 2 BLS TOTAL DEPTH ELEVATION: 803.31 MSL

DRILLING COMPANY: MATMES ENV. SERV. DRILLER: K. BUNSELWEYER RIG TYPE: CME - 550

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| | LEL HNU RESULTS RESULTS X (PPN) | • |
| | LEL RESULTS X | 8 |
| | LITHOLOGIC DESCRIPTION | 0-1': GRAVEL; COARSE TO FINE PEBBLES (UP TO 2CM); SOME FINE TO COARSE SAND. 2.5Y W4/ DARK GRAY; POORLY SORT; RND TO SUBR; LOOSE; NON-PLASTIC; MOIST. 1-2': CLAYNOY; SOME V. FINE TO V. COARSE SAND; TRC COARSE TO FINE PEBBLES. 2.5Y 4/2 DARK GRAYISH BROWN; POORLY SORT; RND; SLIGHTLY DEWSE; SLIGHTLY PLASTIC; MOIST. |
| | LITHOLOGIC SYMBOLS | |
| İ | SOIL TYPE (USCS) | ಕ ರ |
| | RECOVERY (FT) | 5:1 |
| | BUTTOM SAMPLE (FT BLS) | 2.0 |
| | TOP OF SAMPLE (FT BLS) | 0.0 |
| 2 /22/2 | BLOW | SB2-3-1 20-16-11 |
| | SAMPLE | SB2-3-1 |
| | DEPTH (FT BLS) | 0.0 |

INDIANA ANG SITE INVESTIGATION, FORT WAYNE, INDIANA SOIL BORING LOG

LAND SURFACE ELEVATION: 800.46 MSL TOTAL DEPTH ORILLED: 2 BLS TOTAL DEPTH ELEVATION: 798.46 MSL

SOIL BORING NO.: SB2-4 SUPERVISORY GEOLOGIST: KATE FOX LOG BOOK/PG. NO. : 4/26 DRILLING STARTED: 8/30/90 BORING COMPLETED: 8/30/90

| RESULT (PPH) |
|-------------------------------------------|
| LEL RESULTS X |
| LITHOLOGIC DESCRIPTION |
| SOIL TYPE LITHOLOGIC (USCS) SYMBOLS |
| SOIL TYPE (USCS) |
| RECOVERY (FT) |
| BOTTON SAMPLE (FT BLS) |
| TOP OF SAMPLE (FT BLS) |
| BLOW |
| SAMPLE |
| DEPTH (FT BLS) |

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DRILLING COMPANY: MATHES ENV. SERV. DRILLER: K. BUNSELMEYER RIG TYPE: CME - 550

| RESULTS (PPH) | • |
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| LEL H RESULTS RES X (P | 3 |
| LITHOLOGIC DESCRIPTION | 0-1': GRAVEL; COARSE TO FINE PEBBLES (UP TO 2CM); SOME FINE TO COARSE SAND. 2.5Y N4/ DARK GRAY; POORLY SORT; RND TO SUBR; LOOSE; NON-PLASTIC; MOIST. 1-2': CLAY-SANDY; SOME V. FINE TO V. COARSE SAND; TRC COARSE TO FINE PEBBLES. 2.5Y 4/2 DARK GRAYISH BROWN; POORLY SORT; RND; SLIGHTLY DENSE; SLIGHTLY PLASTIC; MOIST. |
| SOIL TYPE LITHOLOGIC (USCS) SYMBOLS | \$2.00 *62.00 |
| SOIL TYPE (USCS) | 3 3 |
| RECOVERY (FT) | 1.2 |
| BOTTOM SAMPLE (FT BLS) | 2.0 |

0.0

\$82-4-1 15-14-10

0:0

| 3 | Science Applications International Corporation | | ield | 5 | 83 | -5 | - | Page of |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------|-------|--------|-------------|---------|-------------|-----------------------------------------------------------------------|
| | No.: | | | | | - | | onitor Well No NA |
| Site File | <i>1</i> | Sur | face | Elev | 1. 1 | 79.9 | 4 C | completion Depth 41.6 |
| Fed. ID | NoN/A | Aug | er D | epti | 13 <u>%</u> | 5 | — | Rotary Depth NA |
| Quadra | ngle | Dat | o: St | tert . | 10 | 13 | 0/ | % Finish 10/3 /9/ |
| Boring | ocation N 1268796.426 | | | AM | PLE | S | | Personnel |
| | E 634576,046 | | 2 | 1 | 35% | Stores) | (PP) | G-TOM WEATHERLY D-TIM CRANK |
| Drilling | Equipment ME-75; HSA; 140/6 HAMMER | 1 2 | 1.0 | 1 | A 8/2 | 3 | 2 | H - DAVE JULIUS |
| Elev. | DESCRIPTION Depth in feet | S | 8 | 3 | 748 | > | π. <u>§</u> | REMARKS |
| | () [GW] SAND AND GRAVEL COST SANDS SOME SILT 104 R 3/3 DK BOWN; GRAVEL WELL SORTOD; ANGULAR; NATIVE AND NOW -MATIVE PEBBLES SUBR | E | 45 | X | y | 5-7-7 | 90° | SS-SPCIT SPOON DNR-DATA NOT REMIDED CLABANAL: LETO 11.3 PPM. |
| - | TO 2 mm TOP .4' SAND AND GRAVEL BOTTOM:5' CLAY AND SILT 2.5 YR 3/3 OLIVE GRAY. 5.0 1000-PLASTIC. | (Z) | 53. | X | نم | 6.1.10 | 90 | BY = BACKGROND MHICH MAY 3 PPM AT THIS |
| | (3) [CL] CLAY AND GILT, DENSE; MOIST, 2.545/6 ,000 | (3 | 55 | X | , | 4-9-16 | 95 | scretinus. BG = 3 PPM |
| | A SMI SILT AND CLAY: D.S YR4/S OLIVE BROWN; DONE, 1500 | Ð | 45 | X | 2 | 9-6-4 | 86 | .B6 = 3 ppm |
| | SERSILITY CLAY. 2548 4/3 BROWN/QUIE BROWN; DENSE; MOIST REC: 1.5' | 6 | 45 | X | نم. | 3-8-9 | 00/ | |
| | G[my SILT & CLAY, 10XR 4/1 ; DENSG. REC: 1.5' | (| 55 | X | ¥ | 3-7.9 | SD0~70C | GLABANAL: LLAD 8.5 SVOL MO VCC NO THM ND |
| | PCU SILTY CLAY. 104R 4/1; DENSET. REL: 1.51 | Ţ | 35 | X | ٨ | 2-8-10 | 0/ | |
| | (B[(i] SILTY (LAY) SOME PERBLESS 104R 4/1; DENSO B-20 | É | 55 | X | N | 3-4-7 | 36 | |

| 3 | Science Applications International Corporation | | | eid | - 51 | 63. | -5 | _ | |
|------------|------------------------------------------------------------------------------------|---------------------------|---------------------------------------|------|-----------|-----|-------------|------|--------------------------------|
| 1 | No. 03-0349-XX County ALLON | | | - | | | | | onitor Well No NA |
| 1 | Name FT WAYNE TANGE | | | | | | | | ompletion Depth 41 |
| 1 | . No | | | | | | | | Rotary Depth NA |
| Quadra | ingle <u>065/AN /ND</u> Sec. 9 T. 29 R /S | 2 | Date | : St | ert _ | 14 | <u> 2/3</u> | °0/9 | 7 Finish 10/31/9/ |
| Boring | Location N 1266796,426 | | | S | AMI | PLE | S | | Personnel |
| | E 634576.046 | | ֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓ | | 15 | 132 | Nows | TPI) | G-TOM WEATHERLY D-TIM CRAYY |
| Drilling | Equipment CIME 15: HSA; 140 16 HAMMER | | 2 | å fy | a Te | 33 | 3 | Q | H - DAVE JULIUS H - |
| Elev. | DESCRIPTION | oth leat | S. | S | Sem | 40 | > 2 | 7.3 | REMARKS |
| E | F | - | | | | | * | | SS-SPLIT SPOON |
| <u> </u> | (9 BW) SAND, MED SAND, SOME SICT, SOME 2- EAR Amm PEBRICS (W. RND); WEA. REC: 1.5' | ,,, | | | \forall | v | 6-35- | SE | (3) LAB ANAL: 1840 5.8 |
| F | 4mm PEBBLES (W. RNO); WET. REC: 1.5' | ֖֖֖֖֖֖֖֖֖֝֟֝֟֝֟֝ <u>֚</u> | P | رو | 4 | . / | 16. | ى | SVOC NO |
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| | Name FT WAYNE " TANGE | | | | | | | | ompletion Depth 5.5 |
| Fed. ID | NO N/A | | Aug | er D | epti | ٠ | 4 | | Rotary Depth N/A |
| Quadra | ingle <u>055/AN-JND</u> Sec. 4 T. 29 R | 12 | Date | : St | art , | 10 | 131 | 19 | Finish 10/31/91 |
| Boring | Location N 1268822:625 | | | S | AM | PLE | S | | Personnel |
| | E 634558, 123 | | | 2 | CONST | 17,515 | Blows | _ | G-TOM WEATHERCY D-TIM CRANK H-DAVE JULIUS |
| | Equipment CME-75: HSA: 140 16 HAMME | CR. Depth | 1 | de fr | 4 | * 1 × 1 | Saage, | 9 | H - DAVE JULIUS H - |
| Elev. | DESCRIPTION (1) TOP .5' (GW) SANDY GRAVEL. 104R 4/1 GRAY. | in feet | S | 3, | Sar | 3 | 2 | - : | REMARKS |
| E | ,5'-1.0'[Ci] SILTY CLAY, 10YR 9/4 BROWN, 1.0'-1.5' [GW] SANDY BRAVEL, 10YR 4/1 GRAY | | 0 | 45 | X | ^ | 7-2-4 | *************************************** | BG = BACKGROWD O LAG AMAL: |
| | The to Loop bridge that the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the tr | E | } | | | | | | LEAD 13.5 Apm Dilter. 98 ppm |
| | · | 2,5 | 1 | | | | | | PAH 240-660 |
| | | E : | • | | | | | | VOC ND " |
| - | D[Ci] SIGY CLAY. LOYR 4/4 BROWN; SOME SAND, | F | 1 | - | | | | | (2 LAS ANAL! |
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INDIANA ANG SITE INVESTIGATION, FORT WAYNE, INDIANA SOIL BORING LOG

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|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| /. SERV. | LEL MMU RESULTS RESULTS X (PPN) | 9 | 0 |
| NATHES ENT MEYER D | LEL RESULTS | E KG | BKG |
| LAMD SURFACE ELEVATION: 793.35 MSL TOTAL DEPTH DEPTH ELEVATION: 788.35 MSL TOTAL DEPTH ELEVATION: 788.35 MSL | LITHOLOGIC DESCRIPTION | SAND; V. COARSE TO FINE GRAIN; SOME FINE TO COARSE SAND. 2.5Y WZ/ BLACK WITH SOME 2.5Y 4/2 DARK GRAYISH BROWN PEBBLES; POORLY SORT; RND TO SUBR; LOOSE; NON-PLASTIC; MOIST. | CLAY; TRC SILT; TRC FINE SAND; TRC COARSE PEBBLES. 10YR 4/2 DARK GRAYISH BROAM MOTTLED LITH 2.5Y 5/1 GRAY; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC TO PLASTIC; MOIST. |
| RFACE ELEVATI EPTH DRILLED: EPTH ELEVATIO | SOIL TYPE LITHOLOGIC (USCS) SYMBOLS | | |
| LAND SU TOTAL D TOTAL D | SOIL TYPE (USCS) | 3 | ರ |
| | RECOVERY (FT) | 5.1 | 1.2 |
| | BOTTON SAMPLE (FT BLS) | 2.0 | 5.0 |
| 8 | TOP OF SAMPLE (FT BLS) | 0.0 | 3.0 |
| SOIL BORING NO.: \$84-1 SUPERVISORY GEOLOGIST: KATE FOX LOG BOOK/PG. NO. : 4/27 DRILLING STARTED: 8/30/90 BORING COMPLETED: 8/30/90 | BLOW | 6-11-20 | 6-12-18 |
| ING NO.: S DRY GEOLOG PG. NO.: STARTED: WPLETED: | SAMPLE | SB4-1-1 | SB4-1-2 |
| SOIL BOR! SUPERVISC LOG BOOK, DRILLING BORING CC | DEPTH (FT BLS) | 0.0 | 3.0 |

INDIANA ANG SITE INVESTIGATION, FORT WAYNE, INDIANA SOIL BORING LOG

SITE

| 9 | , , , , , , , , , , , , , , , , , , , | , > | >- |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| /. SERV. | RESULTS (PPM) | 0 | • |
| : NATHES ENVELNEYER | LEL RESULTS R | BK G0 | BKGD |
| LAND SURFACE ELEVATION: 792.02 MSL TOTAL DEPTH DRILLED: 5 BLS TOTAL DEPTH ELEVATION: 787.02 MSL | LITHOLOGIC DESCRIPTION | CLAY; TRC SILT; TRC FINE TO COARSE PEBBLES. 2.5Y 4/4 OLIVE BROWN; POORLY SORT; RND; DENSE; PLASTIC; MOIST. | CLAY; TRC SILT; TRC FINE TO COARSE PEBBLES. 2.5Y 5/4 LIGHT OLIVE BROWN MOTTLED WITH 2.5Y 5/1 GRAY; POORLY SORT; RND; DENSE; PLASTIC; MOIST. |
| RFACE ELEVAT EPTH DRILLED EPTH ELEVATI | SOIL TYPE LITHOLOGIC (USCS) SYMBOLS | | |
| LAND SU TOTAL D TOTAL D | SOIL TYPE (USCS) | ಕ | ಕ |
| į | S RECOVERY T (FT) (U | 1.2 | 1.2 |
| | BOTTOM SAMPLE (FT BLS) | 2.0 | 0.0 |
| ŏ | TOP OF SAMPLE (FT BLS) | 0.0 | ъ 0. |
| SOIL BORING NO.: SB4-2 SUPERVISORY GEOLOGIST: KATE FOX LOG BOOK/PG. NO. : 4/27 DRILLING STARTED: 8/30/90 BORING COMPLETED: 8/30/90 | BLOW | SB4-2-1 13-10-10 | 8-12-16 |
| ING NO.: S ORY GEOLOG /PG. NO.: STARTED: | SAMPLE | | \$84-2-2 |
| SOIL BOR SUPERVIST LOG BOOK, DRILLING BORING CO | DEPTH (FT BLS) | 0.0 | ю 0. |

INDIANA ANG SITE INVESTIGATION, FORT WAYNE, INDIANA SOIL BORING LOG SITE 4

| | | , | |
|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| /. SERV. | RESULTS (PPN) | £ | ž |
| MATHES ENV. MEYER 50 | LEL MNU RESULTS RESULTS X (PPN) | BKGD | BK® |
| LAND SURFACE ELEVATION: 789.18 MSL TOTAL DEPTH DRILLED: 5 BLS TOTAL DEPTH ELEVATION: 783.18 MSL TOTAL DEPTH ELEVATION: 783.18 MSL | LITHOLOGIC DESCRIPTION | CLAY; TRC SILT; TRC FINE TO COARSE PEBBLES. 10YR 3/2 V. DARK GRAYISH BROWN; POORLY SORT; RND; SLIGHTLY DENSE; PLASTIC; MOIST. | CLAY; TRC SILT; TRC FIME TO COARSE PEBBLES. 2.5Y 5/4 LIGHT OLIVE BROWN MOTTLED WITH 2.5Y 5/1 GRAY; POORLY SORT; RMD; DENSE; PLASTIC; MOIST. |
| RFACE ELEVAT EPTH ORILLED EPTH ELEVATION | LITHOLOGIC Symbols | | |
| LAND SU TOTAL D TOTAL D | SOIL TYPE (USCS) | ಕ | ಕ |
| | RECOVERY (FT) | 1.2 | 1.0 |
| | BOTTOM SAMPLE (FT BLS) | 2.0 | ۰. 0 |
| ŏ | TOP OF SAMPLE (FT BLS) | 0.0 | w 0. |
| SOIL BORING NO.: \$84-3 SUPERVISORY GEOLOGIST: KATE FOX LOG BOOK/PG. NO.: 4/28 DRILLING STARTED: 8/30/90 BORING COMPLETED: 8/30/90 | BLOW | SB4-3-1 6-10-19 | \$84-3-2 7-11-17 |
| ING NO.: S NRY GEOLOG 196. NO.: STARTED: | SAMPLE | \$84-3-1 | \$84-3-2 |
| SOIL BOR SUPERVISA LOG BOOK, DRILLING BORING CC | DEPTH (FT BLS) | 0.0 | 3.0 |

| | | > | |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| SERV. | RESULTS (PPN) | * | £ |
| MATHES ENV. WEYER O | LEL RESULTS 6 | BKG0 | 8 8 |
| DRILLING COMPANY: NATHES ENV. SERV. DRILLER: K. BUNSELNEYER RIG TYPE: CME - 550 | LITHOLOGIC DESCRIPTION | GRAVEL; CLASTS RANGE FORM 5-6CM TO FINE SAND. 10YR 5/1 GRAY; POORLY SORT; SUBR TO SUBA; LOOSE; NON-PLASTIC; SAT. | CLAY; TRC SILT; TRC FINE TO COARSE PEBBLES. 2.5Y 5/4 LIGHT OLIVE BROWN MOTTLED WITH 2.5Y 5/1 GRAY; POORLY SORT; RND; DENSE; PLASTIC; MOIST. |
| LAND SURFACE ELEVATION: 793.34 MSL TOTAL DEPTH DRILLED: 5 BLS TOTAL DEPTH ELEVATION: 788.34 MSL | 1 | GRAVEL; CLASTS RANGE I POORLY SORT; SUBR TO | CLAY; TRC SILT; TRC FI OLIVE BROWN MOTTLED W DENSE; PLASTIC; MOIST |
| RFACE ELEVA EPTH DRILLE EPTH ELEVAT | LITHOLOGIC SYMBOLS | | 9 |
| LAND SUI TOTAL DI TOTAL DI | SOIL TYPE (USCS) | 3 | ಕ |
| | RECOVERY (FT) | , rż | 1.7 |
| | BOTTON SAMPLE (FT BLS) | 2.0 | 5.0 |
| XO. | TOP OF SAMPLE (FT BLS) | 0.0 | 3.0 |
| SOIL BORING NO.: S84-4 SUPERVISORY GEOLOGIST: KATE FOX LOG BOOK/PG. NO.: 4/29 DRILLING STARTED: 8/30/90 BOOKING COMPLETED: 8/30/90 | BLOW | ¥ | X |
| SOIL BORING NO.: SB4-4 SLPERVISORY GEOLOGIST: KAI LOG BOOK/PG. NO.: 4/29 DRILLING STARTED: 8/30/90 | SAMPLE | SB4-4-1 | \$84-4-2 |
| SOIL BOR SUPERVISA LOG BOOK, DRILLING BORING CK | DEPTH (FT BLS) | 0.0 | 3.0 |

INDIANA ANG SITE INVESTIGATION, FORT WAYNE, INDIANA SOIL BORING LOG

SITE 4

| SERV. | HNU RESULTS (PPN) | * | ğ |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| MATHES ENV MEYER 0 | LEL HINU RESULTS RESULTS X (PPH) | BK GO | B KB |
| LAND SURFACE ELEVATION: 795.44 MSL TOTAL DEPTH DRILLED: 5 BLS TOTAL DEPTH ELEVATION: 790.44 MSL RIG TYPE: CME - 550 | LITHOLOGIC DESCRIPTION | SILTY CLAY; SOME TO AND SILT; TRC COARSE TO COARSE PEBBLES; COAL CHUNKS. 2.5Y 5/2 GRAYISH BROWN; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; MOIST. | CLAY; TRC SILT; TRC FINE TO COARSE PEBBLES. 2.5Y 5/4 LIGHT OLIVE BROWN MOTTLED WITH 2.5Y 5/1 GRAY; POORLY SORT; RND; DENSE; PLASTIC; MOIST. |
| RFACE ELEVAT EPTH DRILLED EPTH ELEVATI | SOIL TYHOLOGIC (USCS) SYMBOLS | | |
| LAND SU TOTAL D TOTAL D | SOIL TYPE (USCS) | ಕ | ಕ |
| | RECOVERY (FT) | 1.2 | 5.5 |
| | BOTTOM SAMPLE (FT BLS) | 3.0 | 0.0 |
| XO. | TOP OF SAMPLE (FT BLS) | 1.0 | 3.0 |
| SOIL BORING NO.: SB4-5 SUPERVISORY GEOLOGIST: KATE FOX LOG BOOK/PG. NO. : 4/29-30 DRILLING STARTED: 8/30/90 BORING COMPLETED: 8/30/90 | BLOW COUNT | SB4-5-1 40-50-23 | SB4-5-2 10-18-25 |
| SOIL BORING NO.: S SUPERVISORY GEOLOG LOG BOOK/PG. NO.: DRILLING STARTED: BORING COMPLETED: | SAMPLE | \$84-5-1 | \$84-5-2 |
| SOIL BORI SUPERVISO LOG BOOK/ DRILLING BORING CO | DEPTH (FT BLS) | 1.0 | 3.0 |

| Site File | No. 03-0344 - XX County ALLEN | | | Boi S | BY | -(| • | Page of initor Well No _ <i>X</i> / 1 | |
|-----------|--------------------------------------------------------------------------------------------------------------------------------|----------|------|----------|------|---------|------------|-----------------------------------------------------------------------------------------------------------------|------|
| Site Fil | Name FT WAYNE IANGE | Sur | face | Elev | | 87. | ક્સ | ompletion Depth <u>25.5</u> | |
| Fed. ID | No | Aug | er D | epth | عـ ا | 4, | <u>5</u> / | Rotary Depth 1/A | |
| Juagra | ngle | Dat | e: S | tart . | 10 | 130 | 19 | / Finish 10/38/91 | |
| Boring | Location N 126 95 4 6.481 | | | SAM | PLE | S | | Personnel G - 70M WEATHERLY | |
| | E 635213,465 | . . | 8 | COVETY | 3 | Blows | (KEN) | D. TIM M. CRANK H. Davië D. Julus | |
| Drilling | Equipment (ME-75. HSA: 14016 HAMMER | ž | 1 | 2 2 | | whee | adres | H • | |
| Elev. | DESCRIPTION Depth in fee | | 8 | S | į | 2 | 8 | REMARKS | |
| | MED ASPHALT, REC: ,7' SOME GRAVE! TO 5 mm SOME SILT WITH CLAY I SAND B20WN 10/R 5/3 | | 55 | | ¥ | 6-7-1 | , IRP | SS-SPLAT SPOON BG = 1 PPM BACKGROUD DINK - DATA NOT BECORDED (T) LAB ANAL: LEAD 0.2 PPM | 1 |
| • | BLACK CONSE MATERIAL W/J. COURSE SAND. BOTTOM & SILT & CLAY BROWN / BRAY MOTTUD, REC. 1.3' (10 YR 4/3 w) 10 YR 4/1) CALL | | 155 | X | y | 5-4-13 | 8.8 | 13 TEN 84-210 AD | 1 |
| | (3) CLAY AND SICT, REC: 2.0/ | 3 | 65 | X | N | 7-13-20 | 25 | TEAD 0.2 ppm Townie 0.7 ppb TPH NO | 1 |
| • | O DK GRAY SILTY CLAY; WOLST, PLASTIC; NOVR 4/1. | £ | 65 | X | i, | PAIR | 9-6 | | |
| | [GW] 6) GRHELLY SAND - POORLY SORNO; PEBBLES TO 10 MM; GRAY - DK GRAYSSALT & PEPPBE APPEARANCE; 10YR 3/2. 20,0. REC. 1. 2.0 | <u> </u> | 55 | X | 'n | 717817 | 8 | | |
| | (CL) 6 CLAY W/61LT SOME PERBURS (SUBR TO W. RWD): PLASTIC SL. MOIST, POYR 3/3 DK GREY. REC: DWR | | 55 | Calif. | ÿ | 01-9-7 | Re | BG FOR SAMPIK # 6 WAS DEPAN-SEPTIM CO LAB ANAL: LEAD 0.2 ppm TPH/O:L 150 p.pm TPH/DICK! 98 ppm TOLLENE 1.6 ppb | 1. 1 |
| | B-28 | 11111111 | | | | | | | |

| | Site File | No. 03-0349-XV County ALIEN | | | ≤ | 5D4 | الماري) | | Page of |
|---|-----------|--------------------------------------------------------------|------------|-------|--------|-----------|---------|----------|-----------------------------------|
| | | • | Suri | isce | Elev | 79 | 1.60 | _c | ompletion Depth_60 |
| | | | Aug | er D | epth | ئــ ا | 4,5 | _ | Rotary Depth NA |
| | | ngle <u>055/AN IND</u> Sec. 9 T 29 R /2 | Date | o: S1 | tart , | _/ | 0/3/ | j /2 | Finish 10/31/9/ |
| | Boring | ocation N 12 6 97 07 . 137 | | | SAM | | | | Personnel |
| | - | E 635 033.558 | | 2 | Assec | 11/5/5 | Moses | - 1 | G-TOM VEATAERLY D-TIM CRANK |
| | Drilling | Equipment CME 75: HSA: 14016 HAMMER | 18 | 1 5 | Pe Re | 8 / Je | - | | H - DAVE JULIUS |
| | Elev. | DESCRIPTION Depth in fee | | 155 | S | 7.48 Z | 2 | -6 | REMARKS |
| | | DIMY SILT W/CLAY & Some CSE SAND. 104R4/3; DENSE; COMPACTED. | 3 0 | 65 | X | _ | 3-5 | : | 45-SPLIT SPOON 46-BACKGROUND |
| | | <u> </u> | ₹" | - | | | | | OLAB ANAL: LEAD O.Zpm |
| | | £ ,_ | 3 | | | | | | TPH/0:L 40PPM TPH/DIEX! 12 PPM |
| | | 2.5 | 7 | | | | | | 13 TEN NO |
| , | | E. | Ę | | | | | | |
| | | @ [mi] SILT AND WAY, TRE CSE SAND (~102); DONSE | 7 | _ | | | 9/1 | | 2 LAB ANAL: LEAD 0.2 ppm |
| | | a Compacted = 5.00 | ₹ ∂ |) 55 | ,[X | /~ | | ď | TPH ND |
| ì | | E . | 7 | _ | |] | 7 | | (TOWERE) 3.5 PPD |
| | Ē | E ' | 7 | | } | | | | |
| 1 | E | E 7.5. | 3 | Ì | | | | | |
| | F | E | 7 | | | | | | |
| Ì | F | - | 7 | | | | | | |
| | E | l E | 7 | | | | | | • |
| İ | F | F | F | | | | | | |
| | E | E. | 3 | | | | | | |
| | E | E | 7 | | | | | | |
| • | F | | 7 | | | | | | |
| | F | | histori | | | | | | |
| _ | E | | 3 | | | | | | |
| | E | E | 4 | | | | | | |
| ~ | F | Į į | 7 | - | | | | | |
| | F | F | 7 | | | | | | |
| ۵ | E | E | 3 | İ | | | | | |
| | F | | 日 | | | | | | |
| | E | B-29 | 且 | 1 | - | 1 | ! | <u>l</u> | |

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| Site Fi | Science Applications International Corporation le No03-0349-XX | | | | S | ring 84 84 | - g | • | Page of |
|----------------------|--------------------------------------------------------------------------------------------|----------------------|-----------|-------------|-------------------------|------------------|------------|-------|----------------------------------------------------|
| j | Site File Name FT WAYNE IANGB | | | | | | | | ompletion Depth 16 |
| Fed. ID. No. No. N/A | | | | | | | | | Rotary Depth N/4 |
| Quadra | angle <u>055/AN /ND</u> Sec. 9 T. 29 R | /2_ | Date | : St | art . | 11. | <u> </u> | 91 | Finish |
| Boring | Location N 1269899.317 | | | 5 | AM | PLE | 5 | | Personnei |
| | £ 635128,215 | | | 2 | Covery | ALTSIS. | Blows | (44) | G. TOM WEATHERLY D. TIM CRAVE H. DAYE JULIUS |
| Elev. | DESCRIPTION | <i>ER</i> I Depth | 1 | mgde T | 4 | W SH | Valves | U.S. | H • |
| E | (1) NO DESCRIPTION WAS CECORDED, REC9' | in feet | 3 | S | 3 | 7 | 2 | | REMARKS SS_SPLIT SPON |
| E | | E E | n | ø | Д | y | 7-5- | . 38 | BG = 3-5 PPM |
| Ė | | F | | \vdash | | | ~ | | 1 LEAD 19.3 1PM |
| | · | 2.5 | | | | | | | TPH ND Brex ND |
| | · | | | | | | | | |
| E | | E | | | | | | | |
| <u> </u> | D[ML] SILT AND CLAY. 10YR 5/3 BROWN WITH SOME GRAY MOTTLING. TRE (SE SAND; DEASE & COM- | Eso= | | | ∇ | | 7-1 | 0 | B6 = 3-5 Ppm |
| | PACTOD, REC9' | E = | 3 | 4, | $\langle \cdot \rangle$ | , | 2-4- | 06-01 | (2) LAS ANAL. |
| | · | F | | | | | | | BTEX C.48 pp b |
| - | • | F _ = | | | | | | | (TOLVENE) LEAD 11.7 FOM |
| | | F 7.5 | | | | | | | |
| | | E = | | | | | | | |
| | (3) [M] SILT AND CLAY SOME CSE SAND. 10YR 3/3; DENSE & COMPACTED; MUIST, REC: 1.5' | E | | | | | 8 | | • |
| | | 10.0 | (3) | 55 | X | Į, | 7. | 98 | BG = 3-5 Apm |
| . Î. | | E | | - | \angle | | 8 | | |
| È | · | E E | | | | | | | |
| | | 13.5 | | | , | | | | |
| | | F | | | | | | | |
| | @[m] SILT AND CLAY. 10 YR3/1; DENSÉ À COMPACIED; | | | | | | | | (A) 100 A 101 . |
| - | MOIST. ACC: 1.5' | 15,0 | <u></u> | ≤ 5 | \bigvee | | 8-9 | 28 | (4) LAB ANAL: LEAD 10.1 pp.m |
| E | | | $ \oint $ | <i>-</i> 23 | \bigvee | Y | 5-6 | æ | TPA/DIL 27 pgm TPA/DIESEL 16 pem |
| E | | | | | | | | | BTEK NO |
| | , | 17.5 | | | İ | | | | |
| | B-30 | E | | | | | | | |
| | 1 2-50 | \mathbf{F} | | - | - { | ! | 1 | | |

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| 515KF4 | 1/K 14. a47 | >- | ~ |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | HINU RESULTS (PPM) | 6 | o |
| MATHES ENV MEYER | LEL RESULTS X | BKGD | B KGD |
| BKGD BKGD ATION: MSL DRILLING COMPANY: MATHES ENV. SERV. DRILLING COMPANY: MATHES ENV. SERV. BUSSELNEYER FIG TYPE: CME - 550 | LITHOLOGIC DESCRIPTION | CLAY; SOME SILT; SOME V. FINE TO V. COARSE PEBBLES; POOR SORT; RND TO SUBR; 10YR 3/3 - 4/3 DK. BROWN TO BROWN; SLIGHTLY DENSE; SLIGHTLY PLASTIC; MOIST. | CLAY; SOME SILT; SOME V. FINE TO V. COARSE PEBLES; POOR SORT; RND TO SUBR; 10YR 3/3 - 4/3 DK, BROWN TO BROWN WOTTLED WITH 10YR 4/1 DK. GRAY; SLIGHTLY DENSE; SLIGHTLY PLASTIC; MOIST. |
| SITE BKGD SITE BKGD SURFACE ELEVATION: MS IL DEPTH ELEVATION: MSILLED | SOIL TYPE LITHOLOGIC (USCS) SYMBOLS | | · . |
| LAND SUN TOTAL DI TOTAL DI | SOIL TYPE (USCS) | ಶ | ಕ |
| | RECOVERY (FT) | 1.0 | 1.5 |
| | BOTTOM SAMPLE (FT BLS) | 2.0 | 5.0 |
| FOX | TOP OF SAMPLE (FT BLS) | 0.0 | 3.0 0.0 |
| ~=- | BLOW | 86-1-1 12-17-23 | ¥ |
| 86° SOIL BORING NO.: (\$8-8-1-1) SUPERVISORY GEOLOGIST: KAT LOG BOOK/PG. NO. : 4/10-11 BORILLING STARTED: 8/28/90 | SAMPLE NUMBER | | 86-1-2 |
| SOIL BOR! SUPERVISK LOG BOOK! DRILLING BORING CC | DEPTH (FT BLS) | 0.0 | 3.0 |

| Site File | No. 03-0349-XX County ALLEN | | | | | 56- | - ~ | og) Mo | Page of |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|---------|--------|--------|----------|------------|-------------------------------------------------|
| | Name FTWAYNE EANGE | | | | - | | | | ompletion Depth_39/ |
| Fed. ID. | No NiA | | | | | | | , | Rotary Depth W/A |
| Quadra | ingle <u>CSS/ANg IND</u> Sec. 9 T 29 R | 12 | Date | ı: St | ært , | _// | 1/3/ | 91 | Finish |
| Boring | Location # 1267187.618 | | | 8 | AM | IPLE | <u>s</u> | | Personnel |
| Deilling | E 634626.554 | | ક | lype | BCOVER | ACYSIS | D Cows | for. | G-TOM WEATHELLY D-TIM CRANK H-DAVE JULIUS |
| Elev. | DESCRIPTION | Depth | 4 | after 1 | mpte A | 48.48 | Valves. | | H • |
| | 1) TOP 03' SANDICY: TO VICK SAND. REMAINDER IS | in feet | 25 | 18 | S | 17 | 7 | | REMARKS |
| | CONGLOMERATE OF ASPHALTS COBBLES. CONCRETE SILT & CLAY. ALMOST LIKE GLACIAL TILL IN APPEARANCE, 10 YR 4 14; DENSELY COMPACTED AND DRY REC! 1.11 | E | 0 | 45 | F | | 7-15 | 120 | BG-BACKO BOUND BG= ,5-1 PPM |
| | | ŧ = | 3 | 55 | X | У | 6.6.1 | 98 | 86=.5-1 Ppm |
| = | DITOP. 3 [SM] SAND, USE TO U. USE SAND, SOME SILT, GRANULES TO DOMM. LOSSELY COMPACTED; DRY. | .50 | | | | | A | ı | O LAB ANAL: LEAD 30.6 COM |
| - | BOSTOM . b'[MI] SILT & CLAY SOME PEBBES TRC U. (56 SAND, 104R 4/3; SUBL TO SUBA . (RUMBIES WITH EFFORM BILLY); BREAKS RATHER THAN CRUMBIES (SAND). V. LITTLE MOISTONE. RET. 9. | E | 1 | | | | | | TPH 220 ppm Toware 2 ppb |
| - | V. LITTLE MOISTONE. RUC: ,91 | | | | | | | | PAH GOODS - 3400 |
| | • | /0.2 E | 1 | | | | | | (2) LAB ANAL: LEAD IT, I APM |
| - | | ΕĒ | 1 | | | | | | TPH 100ppm Towene 31 ppb |
| = | | E = | | | | | İ | | PAH 370-1000pb |
| = | | [/S.0_ | 1 | | | | | | |
| - | | ΕΞ | | | | | | | |
| | | E. E | | | | | ~ | | |
| | (3) [M] SILT & CLAY TRC PEBBLES (2mm). 104R 3/1 VI DK GRAY; V. DENSE AND COMPACT. REC. 1.35 | E = | 3 | 45 | X | У | 1-01-9 | 86 | |
| - | | E = | | | | | | | 3 LAB ANAL: LEAD. 9.1 HM |
| _ | | | | | | | | | TOWER 41 pp b |
| - | | 250- | 1 | | | | | | PAH ND SUCK NO |
| | | <u> </u> | 1 | | | | | | |
| _ | | 3.0 | 1 | | | | | | l |
| | | E "= | 1 | | | | | | PLAB ANAL. |
| - | | == | | | | | | | TPH NO |
| - | 4) 37 - 39 [ML] SILT & CLAY - LOYR 3/1 V. DK GRAY, | 350 | | | | | 2 | | SUCC ND |
| | WET to SAT, RGC: 2.0" | = = | 1 | | | | 7.4 | 7.55 | SAMPLE A) WAS A TWO |
| | B-32 | == | 0 | 45 | V | 7 | 3 | <u>a</u> | FOOT SAMPLING INTERVAL, |

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| 5 | Science Applications International Corporation No.: 03-0349-XX County ALLITS | | | | B | 6- | | | Page of |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|----------|--------|-----|----------|-----|---------------------------------------------------------------------------------------------------------------------------------------|
| ł | Name FT WAYNG" TANGE | | | _ | | | | | npletion Depth 30.5 |
| 1 | No N/A | | | | | | | _ | otary Depth <u>N/A</u> |
| 1 | ingle <u>DSSIAN IND</u> Sec. 9 T. 29 R | | • | | - | _ | 1 | | 1 |
| l | Location N 1268664.986 | | <u> </u> | | AMP | | | T | Personnel |
| Boring | E 635319.343 | | | | È , | 8 1 | | E G | TOYN WEATHERLY |
| Drilling | Equipment (INE 75: HSA: 140/bs HAMME) | 0 | ş | Y | Reco | 3 | 1 C | ğН | - DAVE JULIUS |
| Elev. | DESCRIPTION | Depth in feet | Semp | Sample | Sample | | | | REMARKS |
| | [MI] SILT & CLAY, TRC. PCBBLES (Jmm), 104R 9/1 [MI] SILT & CLAY, TRC. PCBBLES (Jmm), 104R 9/1 DK GRAY; SUBA TO SUBL; CRUMBICS : SILLY; DENSO & COMPACTED, NOT PLASTIC; SL MOIST, PREC: 1.4 | -10.0 -15.0 | ⊕ ⊕ | | X | У | 9-10 | | S-SPLIT SPOON SC-BACKGROUND BE = ,2 PPM LEAD 20.6PPM TOWERE 110 PPB TPH ND SVCC ND BG = .2 PPM QLAB ANAL: LEAD 93 PPM VOL STEEL ND |
| المتنانين المسامين المسامين المسامين | (3) Em] SAND, FINE SAND, SOME SILT. 10YR 4/1; SAT TO V MOIST. B-33 | 300 | | 歩 | X | y | 21-34-46 | 986 | SIOC ND |

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INDIANA ANG SITE INVESTIGATION FORT WAYNE, INDIANA WELL BORING LOG

SITE FTA

| NV. SERV. | MNU RESULTS (PPM) | 2 | ¥ | ¥ |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MATHES E LMEYER 50 | LEL RESULTS X | BK GD | 8 4.60 | 8 |
| DRILLING COMPANY: NATHES ENV. SERV. DRILLER: K. BUNSELMEYER RIG TYPE: CME - 550 | LITHOLOGIC DESCRIPTION | CLAY; SOME TO AND SILT; SOME V. FINE TO V. COARSE SAND; SOME V. FINE TO V. COARSE PEBBLES. 2.5Y 3/2 V. DARK GRATISH BROWN; POORLY SORT; RND TO SUBR; MED DENSE; SLIGHTLY PLASTIC; MOIST | CLAY; SOME SILT; SOME V. FINE TO V. COARSE SAND; TRC V. FINE TO V. COARSE PEBBLES. 57 3/1 - 3/2 VERY DARK GRAY TO DARK OLIVE GRAY; POORLY SORT; RND TO SUBR; DENSE; PLASTIC; MOIST. | CLAY; SONE TO AND SILT; SONE V. FINE TO V. COARSE SAND; TRC V. FINE TO MED PEBBLES. 2.57 3/2 - 4/2 VERY DARK GRAYISH BROWN TO DARK GRAYISH BROW; POORLY SORT; RND TO SUBR; V. DENSE; SLIGHTLY PLASTIC; SLIGHTLY MOIST TO MOIST. |
| LAND SURFACE ELEVATION: 804.37 MSL TOTAL DEPTH DRILLED: 47.24 BLS TOTAL DEPTH ELEVATION: 757.13 MSL COMPLETION DEPTH: 47.24 BLS | SOIL S TYPE LITHOLOGIC C (USCS) SYMBOLS R | CL CLAY; SOME TO AND STI | CL CLAY; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SOME SILT; SO | CL CLAY; SOME TO AND STI V. FINE TO MED PEBBLE TO DARK GRAYISH BROM SLIGHTLY PLASTIC; SLI |
| 3558 | RECOVERY (FT) | 1:1 | 0.1 | . . |
| | BOTTOM SAMPLE RE (FT BLS) | 2.0 | 12.0 | 17.0 |
| × | TOP OF SAMPLE (FT BLS) | 5.0 | 10.0 | 15.0 |
| WELL BORING NO.: MW1-1 SUPERVISORY GEOLOGIST: KATE FOX LOG BOOK/PG. NO. : 3/46-47 DRILLING STARTED: 9/6/90 WELL COMPLETED: 9/6/90 | BLOV | 3-5-8-13 | 2-4-4-8 | - 15.0 MV1-1-3 6-11-13-17 - - |
| BORING NO.: MW1-1 WVISORY GEOLOGIST: ROOK/PG. NO.: 3/4 LING STARTED: 9/6/90 | SAMPLE | 0.0 - - - 5.0 MW1-1-1 | 10.0 MU1-1-2 | M-1-1-3 |
| WELL BORING NO.: MW1-1 SUPERVISORY GEOLOGIST: KAT LOG BOOK/PG. NO. : 3/46-47 DRILLING STARTED: 9/6/90 WELL COMPLETED: 9/6/90 | DEPTH (FT BLS) | 0.0 | B-34 | |

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|------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DESC. | (FA) | £ | ¥ | £ | Z | ¥ |
| LEL | * | 9 KGD | A G | 8 60 | BKG0 | 860 |
| TITHOLOGIC DESCRIPTION | | CLAY; SOME TO AND SILT; SOME V. FINE TO V. COARSE SANDS; TRC V. FINE TO NED PEBBLES. 2.5Y 3/2 - 4/2 VERY DARK GRAYISH BROWN TO DARK GRAYISH BROWN; POORLY SORT; RND TO SUBR; V. DENSE; PLASTIC; MOIST. | CLAY; SOME TO AND SILT; SOME V. FINE TO V. COARSE SANDS; TRC V. FINE TO MED PEBBLES. 2.5Y 3/2 - 4/2 VERY DARK GRATISH BROWN TO DARK GRAYISH BROWN; POORLY SORT; RND TO SUBR; V. DENSE; PLASTIC; MOIST. | CLAY; SOME TO AND SILT; SOME V. FINE TO V. COARSE SANDS; TRC V. FINE TO MED PEBBLES. 2.5Y 3/2 - 4/2 VERY DARK GRAYISH BROWN TO DARK GRAYISH BROWN; POORLY SORT; RND TO SUBR; V. DENSE; PLASTIC; MOIST. | CLAY; SOME TO AND SILT; SOME V. FINE TO V. COARSE SANDS; TRC V. FINE TO WED PEBBLES. 2.5Y 3/2 - 4/2 VERY DARK GRAYISH BROWN TO DARK GRAYISH BROWN; PORRLY SORT; RND TO SUBR; V. DENSE; VERY PLASTIC; V. MOIST TO WET. | GRAVEL; V. FINE TO V. COARSE PEBBLES (UP TO 4CM); SOME V. FINE TO COARSE SAND; TRC \$1LT. 2.57 3/2 VERY DARK GRAYISH BROWN TO 4/2 DARK GRAYISH BROWN; POORLY SORT; RND TO SUBR; LOOSE; NON-PLASTIC; SAT. |
| S C 2150 DG1C C | | | | | | |
| SOIL | | ರ | ರ | ರ | ರ | 3 |
| RECOVERY | (FT) | 1.2 | 2.5 | 1.2 | 1.45 | 6. |
| BOTTOM SAMPLE | (FT BLS) | 22.0 | 27.0 | 32.0 | 37.0 | 42.0 |
| TOP OF | (FT BLS) | 20.0 | 25.0 | 30.0 | 35.0 | 0.0 |
| BLOW | | 3-6-9-15 | 3-9-11-18 | 3-8-11-16 | 2-5-5-7 | 2-5-8-13 |
| SAMPLE | | MJ-1-4 | 25.0 Mu1-1-5 | 30.0 MU1-1-6 | Md1-1-7 | 40.0 M41-1-8 |
| DEPTH | | 20.0 | 25.0 | 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 35.0 | |

| s | I |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESULTS (PPM) | ¥ |
| LEL RESULTS RE X (| 8 |
| LITHOLOGIC DESCRIPTION | 025', SAND; V.FINE TO V. COARSE; SOME V. FINE TO MED PEBBLES. 2.57 3/2 - 4/2 VERY DARK GRAYISH BROWN TO DARK GRAYISH BROWN; POCRLY SORT; RND TO SUBR; LOOSE; NOW-PLASTIC; SAT25-1.8', CLAY; SOME TO AND SILT; TRC TO SOME V. FINE SAND TO MED PEBBLES. 57 4/1 DARK GRAY; DENSE; SLIGHTLY PLASTIC; MOIST. |
| LITHOLOGIC C SYMBOLS R | |
| SOIL TYPE I (USCS) | 35 |
| RECOVERY (FT) | e. |
| BOTTOM SAMPLE (FT BLS) | 67.0 |
| TOP OF SAMPLE (FT BLS) | 0.54 |
| BLOW | 45.0 Mt1-1-9 16-38-32-34 45.0 |
| SAMPLE | MV1-1-9 |
| DEPTH (FT BLS) | 45.0 |

SITE FTA

| NO.: MU1-2 | SUPERVISORY GEOLOGIST: KATE FOX | NO. : 3/43-44 | RTED: 9/6/90 | COMPLETED: 9/6/90 |
|------------------|---------------------------------|---------------|--------------|-------------------|
| WELL BORING NO.: | SUPERVISORY | LOG BOOK/PG. | DRILLING STA | WELL COMPLET |

LAND SURFACE ELEVATION: 807.23 MSL TOTAL DEPTH DRILLED: 52.56 BLS TOTAL DEPTH ELEVATION: 744.67 MSL COMPLETION DEPTH: 52.56 BLS

DRILLING COMPANY: MATHES ENV. SERV. DRILLER: K. BUNSELMEYER RIG TYPE: CME - 550

| WELL | WELL COMPLETED: 9/6/90 | 06/9/6 | | | | | | ŀ | | |
|-------------------|------------------------|----------|------------------------------|------------------------------|------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------|
| DEPTH (FT BLS) | H SAMPLE LS) NUMBER | BLOW | TOP OF SAMPLE (FT BLS) | BOTTOM SAMPLE (FT BLS) | RECOVERY (FT) | SOIL TYPE (USCS) | LITHOLOGIC C SYMBOLS R | LITHOLOGIC DESCRIPTION | LEL RESULTS X | HWU RESULTS (PPM) |
| Ó | 0.0 | | | | | | | | | |
| 'n | 5.0 MJ1-2-1 | 2-4-4-7 | 5.0 | 7.0 | 1:0 | ರ | CLAY; 1 GRAYIS! 1 GRAYIS! 1 YELLON! | CLAY; TRC TO SOWE SILT; TRC FINE TO MED. SAND. 2.5Y 4/2 DARK GRAYISH BROWN MOTTLED WITH 10YR 5/1 GRAY AND 10YR 5/6 - 6/6 Yellowish brown to brownish Yellow; poorly sort; dense; plastic; Moist. | BKGD | • |
| ⊭ B-37 | 10.0 MV1-2-2 | 2-2-4-4 | 10.0 | 12.0 | 6.0 | ರ | CLAY; SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY SANOY | CLAY; TRC TO SOME SILT; TRC V. FINE TO MED PEBBLES (3-5MM) AND SANDY LAYERS (SEVERAL GRAINS THICK); V. FINE TO COARSE SAND. 2.5Y 4/2 DARK GRAYISH BROWN MOTTLED WITH 10YR 5/1 GRAY AND 10YR 5/6 - 6/6 YELLOWISH BROWN TO GROWNISH YELLOW; MOD TO WELL SORT; DENSE; PLASTIC; MOIST. | 35 | 0 |
| 2 . | 15.0 MV1-2-3 | 2-4-6-11 | 15.0 | 17.0 | 1.0 | ಕ | CLAY; DARK O PLASTI | CLAY; SOME SILT; TRC FINE SAND TO MED PEBBLES. 5Y 3/1 - 4/1 V. Dark gray to dark gray; poorly sorted; rwd; dense; slightly Plastic to plastic; slightly moist. | 8 | • |

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|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESULTS (PPM) | • | • | 2 | ¥ | ¥ |
| LEL RESULTS X | 8 | BKG | 80 | 8 | 8 |
| LITHOLOGIC DESCRIPTION | CLAY; SOME SILT; TRC TO SOME V. FINE TO COARSE SAND; TRC V. FINE TO COARSE PEBBLES (UP TO 2CM). 5Y 4/1 - 5/1 DARK GRAY TO GRAY; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; SLIGHTLY MOIST. | CLAY; SOME SILT; TRC TO SOME V. FINE TO COARSE SAND; TRC V. FINE TO COARSE PEBBLES (UP TO 2CM). 57 4/1 - 5/1 DARK GRAY TO GRAY; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; SLIGHTLY MOIST. | CLAY; SOME TO AND SILT; SOME V. FINE TO COARSE SAND; TRC V. FINE TO COARSE PEBBLES (UP TO 2CM). 5Y 4/1 - 5/1 DARK GRAY TO GRAY; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; SLIGHTLY MOIST. | CLAY; SOME SILT; TRC TO SOME V. FINE TO COARSE SAND; TRC V. FINE TO COARSE PEBBLES (UP TO 2CM). 5Y 4/1 -5/1 DARK GRAY TO GRAY; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; SLIGHTLY MOIST. | CLAY; SOME SILT; TRC TO SOME V. FINE TO COARSE SAND; TRC V. FINE TO COARSE PEBBLES (UP TO 20M). 57 4/1 - 5/1 DARK GRAY TO GRAY; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; SLIGHTLY MOIST. |
| S LITHOLOGIC C SYMBOLS R | | | | | |
| SOIL TYPE L (USCS) | ಶ | ಠ | ರ | ಠ | ರ |
| RECOVERY (FT) | 4. | æ0 | 5 | 5. | 6.0 |
| BOTTOM SAMPLE (FT BLS) | 22.0 | 27.0 | 32.0 | 37.0 | 42.0 |
| TOP OF SAMPLE (FT BLS) | 20.0 | 25.0 | 30.0 | 35.0 | 0.04 |
| BLOW | 6-10-15-24 | 61-01-2-9 | 6-15-20-22 | 4 | 18-30-35-31 |
| DEPTH SAMPLE (FT BLS) NUMBER | 20.0 Mu1-2-4 | . 25.0 MV1-2-5 | 30.0 MI1-2-6 | 35.0 MV1-2-7 | |

| LEL HNU RESULTS RESULTS X (PPM) | # | ~ |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LEL RESULTS X | 8 9 | 88 |
| LITHOLOGIC DESCRIPTION | GRAVEL; V. FINE TO V. CDARSE PEBBLES (UP TO 5CM); SOME V. FINE TO V. CDARSE SAND; TRC SILT. 5Y 4/1 DARK GRAY; POORLY SORT; RND TO SUBR; LOOSE; NON-PLASTIC; SAT. | GRAVEL; V. FINE TO V. COARSE PEBBLES (UP TO 5CM); SOME V. FINE TO V. COARSE SAND; TRC SILT. 5Y 4/1 DARK GRAY; POORLY SORT; RND TO SUBR; LOOSE; NON-PLASTIC; SAT. |
| SOIL TYPE LITHOLOGIC C USCS) SYMBOLS R | | |
| SOIL TYPE (USCS) | 3 | ₹ |
| RECOVERY (FT) | 0. | 2.0 |
| BOTTON SAMPLE (FT BLS) | 67.0 | 52.0 |
| TOP OF SAMPLE (FT BLS) | 45.0 | 50.0 |
| SCUNT | 45.0 MV1-2-9 4-12-16-21 - - | - 50.0 MV1-2-10 7-17-24-38 - - |
| SAMPLE | 11-2-9 | 11-2-10 |
| DEPTH (FT BLS) | 45.0 æ | ¥ 0.000 |

SITE HWSA

| SUPERVISO LOG BOOK/ DRILLING WELL COMP | SOCK/PG. NO.: 4/3 ING STARTED: 9/7/90 COMPLETED: 9/7/90 | LOG BOOK/PG. NO. : 4/31-35 DRILLING STARTED: 9/7/90 WELL COMPLETED: 9/7/90 | Ĭ | | | TOTAL | TOTAL DEPTH DRILLED: 58.19 BLS TOTAL DEPTH ELEVATION: 742.88 MSL COMPLETION DEPTH: 58.19 BLS | DRILLER: K. BUNSELMEYER RIG TYPE: CME - 550 | D SEE SEE | |
|-------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------|------------------------------|------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------|-------------------------|
| DEPTH (FT BLS) | SAMPLE | BLOW | TOP OF SAMPLE (FT BLS) | BOTTON SAMPLE (FT BLS) | RECOVERY (FT) | SOIL TYPE (USCS) | S LITHOLOGIC C LITHOLOGIC SYMBOLS R | DESCRIPTION | LEL RESULTS X | HNU RESULTS (PPM) |
| 0.0 | | | | | | | | | | |
| 0, , , , , | 5.0 MW2-1-1 | 2-3-4 | 5,0 | 0.7 | 9. | ರ | CLAY; SOME TO AND SILT; SOME V. FINE TO V. COARSE SAND; TRC FINE PEBBLES. 107R 4/3 - 4/4 DARK BROWN TO DARK YELLOWISH BROWN WOTLLED WITH 10YR 5/1 GRAY; POORLY SONT; RND TO SUBR; DENSE; SLIGHTLY PLASTIC; MOIST. | NE TO V. COARSE SAND; TRC FINE N TO DARK YELLOWISH BROWN SORT; RND TO SUBR; DENSE; | BKGD | • |
| 0.0 | MA2-1-2 | 4-9-14-17 | 0.0 | 12.0 | 5.1 | ರ | CLAY; SOME TO AND SILT; SOME V. FINE TO V. COARSE SAND; TRC MED PEBBLES. 10YR 4/3 - 4/4 DARK BROWN TO DARK YELLOWISH BROWN HOTTLED WITH 10YR 5/1 GRAY; POORLY SORT; RND TO SUBR; DENSE; SLIGHTLY PLASTIC; MOIST. | ME TO V. COARSE SAND; TRC MED N TO DARK YELLOWISH BROWN SORT; RND TO SUBR; DENSE; | B KG | • |
| 0. čt | M/2-1-3 | 5-13-16-19 | 15.0 | 17.0 | 7.0 | ರ | CLAY; SOME TO AND SILT; SOME V. FINE TO V. COARSE SAND; TRC FINE TO NED PEBBLES. 10YR 4/3 - 4/4 DARK BROWN TO DARK YELLOWISH BROWN WOTTLED UITH 10YR 5/1 GRAY; POORLY SORT; RND TO SUBR; DENSE; SLIGHTLY PLASTIC; MOIST. | NE TO V. COARSE SAND; TRC FINE RK BROWN TO DARK YELLOWISH POORLY SORT; RND TO SUBR; | 8 KG | • |

| SOUL S SAMPLE RECOVERY TYPE LITHOLOGIC C (FT BLS) (FT) (USCS) SYMBOLS R 22.0 1.7 CL | S SAMPLE RECOVERY TYPE LITHOLOGIC C S) (FT BLS) (FT) (USCS) SYMBOLS R 22.0 1.7 CL | S SOIL SOIL S S RECOVERY TYPE LITHOLOGIC C S) (FT) (USCS) SYMBOLS R 1.7 CL | SOIL TYPE LITHOLOGIC C (USCS) SYMBOLS R | LITHOLOGIC C SYMBOLS R | n U ez | LITHOLOGI | 93 120 | RESULTS X BKCD | RESULTS (PPN) |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|
| | | | | | SUBR; DENSE; SLIGHTLY PLASTIC; | 6/72 DARK GRAYI | PEBBLES. 2.57R 4/2 DARK GRAYISH BROWN; POORLY SORT; RND TO SUBR; DENSE; SLIGHTLY PLASTIC; MOIST. | | · |
| 4-7-11-17 25.0 27.0 1.5 CL | 27.0 1.5 CL | 1.5 cl | <u> </u> | | CLAY; SOME SILT; TRC TO SOME V. FINE TO MED GRAVEL. 5Y 4, SUBR; DENSE; PLASTIC; MOIST. | TRC TO SOME RAVEL. 57 4. STIC; MOIST. | CLAY; SOME SILI; TRC TO SOME V. FINE TO V. COARSE SAND; TRC V. FINE TO MED GRAVEL. 57 4/1 DARK GRAY; POORLY SORT;RND TO Subr; Dense; Plastic; Moist. | 8 | • |
| 30.0 MAZ-1-6 4-8-11-15 30.0 32.0 1.2 CL CLAY; SOME SILT; SOME V. FINE TO MED PEBBLES. 57 4 V. FINE TO MED PEBBLES. 57 4 SUBR; DENSE; PLASTIC; MOIST. | 32.0 1.2 CL | 1.2 GL | 73 | | CLAY; SOME SILT; SOME V. FINI V. FINE TO MED PEBBLES. 5Y A SUBR; DENSE; PLASTIC; MOIST. | SOME V. FINI | CLAY; SOME SILT; SOME V. FINE TO V. COARSE SAND; TRC TO SOME V. FINE TO MED PEBBLES. 5Y 4/1 DARK GRAY; POORLY SORT;RND TO SUBR; DENSE; PLASTIC; MOIST. | 3 | ¥ |
| MW2-1-7 4-6-9-14 35.0 37.0 1.4 CL CLAY; SOME TO AND SILT; SOME FINE TO MED PEBBLES. 57 4/1 SUBR; DENSE TO SLIGHTLY DENS SLIGHTLY WET. | 37.0 1.4 CL | 7.4 G | 70 | | CLAY; SOME TO AND SILT; SOME FINE TO MED PEBBLES. 5Y 4/1 SUBR; DENSE TO SLIGHTLY DENS SLIGHTLY WET. | D SILT; SONE LES. 57 4/1 LIGHTLY DENS | CLAY; SOME TO AND SILT; SOME V. FINE TO V. COARSE SAND; TRC V. FINE TO MED PEBBLES. 5Y 4/1 DARK GRAY; POORLY SORT; RND TO SUBR; DENSE TO SLIGHTLY DENSE; SLIGHTLY PLASTIC; MOIST TO SLIGHTLY WET. | 8 | • |
| MAZ-1-8 15-27-50 40.0 42.0 1.0 CL CLAY; SONE TO AND SILT; SON TO MED PEBBLES. 5Y 4/1 DARI DENSE; SLIGHTLY PLASTIC; MO THICK) OF WELL SORT FINE TO | 42.0 1.0 C. | 1.0 cl | ช | | CLAY; SOME TO AND SILT; SOM TO MED PEBBLES. 57 4/1 DARI DENSE; SLIGHTLY PLASTIC; MO THICK) OF WELL SORT FINE TO | SILT; SOM SY 4/1 DARI ST 4/1 DARI LASTIC; MO DRI FINE TO | CLAY; SOWE TO AND SILT; SOWE V. FINE TO WED SAND; TRC V. FINE TO MED PEBBLES. 5Y 4/1 DARK GRAY; WELL SORT; RND TO SUBR; DENSE; SLIGHTLY PLASTIC; MOIST TO WET. THIN LAYERS (1-3 GRAINS THICK) OF WELL SORT FINE TO MED SAND. | 8 8 | • |

| HNU RESULTS (PPM) | E | £ | ¥ |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LEL RESULTS 1 | BKGD | 8 | 8 |
| LITHOLOGIC DESCRIPTION | CLAY; SOME TO AND SILT; SOME V. FINE TO MED SAND; TRC V. FINE TO MED PEBBLES. 5Y 4/1 DARK GRAY; WELL SORT; RND TO SUBR; DENSE; SLIGHTLY PLASTIC; MOIST TO WET. | SAND; V. FINE TO MED; TRC COARSE SAND; TRC SILT. 5Y 4/1 - 4/2 Dark gray to olive gray; well sort; rnd to subr; loose; Non-plastic; sat. | 015', SAND; V. FINE TO MED; TRC COARSE; TRC SILT. 5Y 4/1 -4/2 DARK GRAY TO OLIVE GRAY; WELL SORT; RND TO SUBR; LOOSE; NON- PLASTIC; SAT154', SILT; SOME CLAY; SOME V. FINE TO COARSE SAND; TRC TO SOME V. FINE TO MED PEBBLES. 5Y 3/1 - 4/1 V. DARK GRAY TO DARK GRAY; POORLY SORT; RND TO SUBR; V. DENSE; NON-PLASTIC; SLIGHTLY MOIST TO DRY. |
| S LITHOLOGIC C SYMBOLS R | | | |
| SOIL TYPE ((USCS) | ರ | ĝ, | \$ ₹ |
| ⋩ | | | |
| RECOVERY (FT) | 6: | . . 6. | 7. 0 |
| BOTTOM SAMPLE RECOVE (FT BLS) (FT) | 6'1 0'24 | 52.0 1.6 | 57.0 0.4 |
| | 45.0 47.0 | · | |
| BOTTOM SAMPLE (FT BLS) | 45.0 47.0 | 4-20-54 50.0 52.0 | 26-33 55.0 57.0 |
| TOP OF BOTTOM SAMPLE SAMPLE (FT BLS) (FT BLS) | 47.0 | 50.0 52.0 | 55.0 57.0 |

SITE HWSA

| NUMBER COLMT TOP OF BOTTOM (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT BLS) (FT | WELL BORING NO.: MW4-1 SUPERVISORY GEOLOGIST: LOG BOOK/PG. NO. : 3/3/ DRILLING STARTED: 8/3/ WELL COMPLETED: 9/4/90 | KATE 4-36 1/90 | FOX | | | LAND SU TOTAL D TOTAL D COMPLET | LAND SURFACE ELEVATION: 796.91 MSL TOTAL DEPTH DRILLED: 54.01 BLS TOTAL DEPTH ELEVATION: 742.90 MSL COMPLETION DEPTH: 53.51 BLS | | DRILLING COMPANY: MATHES ENV. SERV. DRILLER: K. BUNSELMEYER RIG TYPE: CME - 550 | TER ENV. | SERV. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------|------------------------------|-------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------|------------------|
| 12-16-21-34 5.0 7.0 1.5 ct. 6-16-22-32 10.0 12.0 0.9 ct. 6-12-14-22 15.0 17.0 1.8 ct. | • | BLOW | TOP OF SAMPLE (FT BLS) | BOTTOM SAMPLE (FT BLS) | RECOVERY (FT) | | ഗ വ ജ | ļ | RES | LEL RESULTS R | RESULTS (PPM) |
| 6-12-14-22 15.0 17.0 1.8 CL | 1 | 12-16-21-34 | 5.0 | 7.0 | 5- | ರ | CLAY; SOME SILT TO FI PEBBLES. 10YR 4/3 BR PLASTIC; SLIGHTLY MOI | INE SAND; TRC TO SOME COARS ROWN; POORLY SORT; RND; DEN 1ST. | | 8 | <u>≅</u> |
| 6-12-14-22 15.0 17.0 1.8 CL | | 6-16-22-32 | 10.0 | 12.0 | 6 | ಕ | CLAY; SOME COARSE CLA MED. PEBBLES. 10YR 4 POORLY SORT; DENSE; 5 | NY TO FINE SAND; TRC TO SOM 4/3 BROWN MOTTLED WITH 10 Y SLIGHTLY PLASTIC; SLIGHTLY I | | S S S S S S S S S S S S S S S S S S S | ¥ |
| | | 6-12-14-22 | 15.0 | 17.0 | . ø | ರ | CLAY; SOME SILT; SOME PEBBLES. 10YR 4/1 DA SORT; RND TO SUBR.; D | E FINE TO COARSE SAND; TRC NRK GRAY MOTTLED WITH 10YR4, DENSE; PLASTIC; MOIST. | | 8 8 | E |

| HANU RESULTS (PPN) | 4 | ¥ | £ | <u>u</u> | £ |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LEL RESULTS | 8 | 8 | 8 (9 | X | 8 |
| LITHOLOGIC DESCRIPTION | CLAY; SOME SILT; SOME FINE TO COARSE SAND; TRC FINE TO MED. PEBBLES. 107R 4/1 DARK GRAY; POORLY SORT.; RND TO SUBR.; DENSE; PLASTIC; MOIST. | CLAY; SOME SILT; SOME FINE TO COARSE SAND; TRC FINE TO MED. PEBBLES. 10YR 4/1 DARK GRAY; POCRLY SORT.; RND TO SUBR.; DENSE; PLASTIC; MOIST. | CLAY; SOME SAND; FINE TO MED. SAND; TRC COARSE SAND; SOME SILT. 10YR 4/1 DARK GRAY; POORLY SORT; RND SUBR; LOOSE; NON-PLASTIC; MOIST TO SLIGHTLY SAT. SAND LENSE FROM 1.3 TO 1.6 FT. | SILTY CLAY; SOME TO AND SILT; SOME V. FINE TO FINE SAND; TRC. COARSE SAND TO FINE PEBBLES. 2.5YR 4/2 - 5/2 DARK GRAYISH BROWN TO GRAYISH BROWN; POORLY SORT; RND; DENSE (BREAKS IN .5 - 1CM LAYERS); NCM-PLASTIC; DAMP TO SLIGHTLY MOIST. | SILTY CLAY; SOME TO AND SILT; 2.5YR 4/2 - 5/2 DARK GRAYISH BROMM TO GRAYISH BROMN; POORLY SORT; RND; DENSE (BREAKS IN .5 - 1CM LAYERS); NOM-PLASTIC; DAMP TO SLIGHTLY MOIST. |
| S LITHOLOGIC C SYMBOLS R | | | | | |
| SOIL TYPE (USCS) | ಕ | ರ | ರ | ಕ | ರ |
| RECOVERY (FT) | 6.1 | 2 | 6. | 9.0 | 6.0 |
| BOTTOM SAMPLE (FT BLS) | 22.0 | 27.0 | 32.0 | 37.0 | 42.0 |
| TOP OF SAMPLE (FT BLS) | 20.0 | 25.0 | 30.0 | 35.0 | 0.04 |
| BLOW | 5-8-13-19 | 4-8-14-21 | 5-7-9-14 | ġ | 45-30 |
| SAMPLE | M14-1-4 | 25.0 MW4-1-5 | 30.0 MW4-1-6 | MJ6-1-7 | ## - 1 - 8 |
| DEPTH (FT BLS) | 20.0 | 6 | B-44 | 35.0 | 0.04 |

| DEPTH (FT BLS) | SAMPLE) NUMBER | BLOW | TOP OF SAMPLE (FT BLS) | BOTTON SAMPLE (FT BLS) | RECOVERY (FT) | SOIL TYPE (USCS) | SOIL S TYPE LITHOLOGIC C (USCS) SYMBOLS R | LITHOLOGIC DESCRIPTION | LEL HNU RESULTS RESULTS X (PPN) | RESULTS (PPM) |
|-------------------|----------------------------|-------|------------------------------|------------------------------|------------------|------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------|
| 45.0 | 45.0 MM-1-9 | 35-50 | 45.0 | 0.74 | 8.0 | ಕ | | SILTY CLAY; SOME TO AND SILT; SOME FINE TO COARSE SAND AND PEBBLES (UP TO 1 CM). 2.5YR 4/2 - 5/2 DARK GRAYISH BROWN TO GRAYISH BROWN; POORLY SORT; RND; DENSE (BREAKS IN .5 - 1CM LAYERS); NOM-PLASTIC; DAMP TO SLIGHTLY MOIST. | 8 | ž |
| 48.5 | 48.5 MM4-1-10 - 50.0 | 100 | 48.5 | 50.5 | 0.5 | ಕ | | SILTY CLAY; SOME TO AND SILT; SOME FINE TO COARSE SAND AND PEBBLES (UP TO 1 CM). 2.5YR 4/2 - 5/2 DARK GRAYISH BROWN TO GRAYISH BROWN; POORLY SORT; RND; DENSE (BREAKS IN .5 - 1CM LAYERS); NOM-PLASTIC; DAMP TO SLIGHTLY MOIST. | BKGD | Œ |

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| DRILLING COMPANY: MATHES ENV. SERV. Driller: K. Bunselheyer Rig Type: Che - 550 | LEL HNU RESULTS RESULTS X (PPH) | | BKGD | BKGD -1 | O C C C C C C C C C C C C C C C C C C C |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DRILLING COMPANY: M DRILLER: K. BLWSELM RIG TYPE: CME - 550 | LITHOLOGIC DESCRIPTION | | CLAY; SOME SILT; SOME FINE TO COARSE SAND; TRC FINE PEBBLES. 10YR 4/3 - 4/4 BROAM TO DARK YELLOHISH BROAM MOTTLED WITH 5Y 5/2 - 4/2 OLIVE GRAY; POORLY SORT; RND; DENSE; SLIGHTLY PLASTIC; SLIGHTLY MOIST. | CLAY; SOME SILT; SOME FINE TO COARSE SAND; TRC FINE PEBBLES. 10YR 4/3 - 4/4 BROWN TO DARK VELLOHISH BROWN MOTTLED WITH 10YR 5/1 - 4/1 GRAY TO DARK GRAY; POORLY SORT; RWD; DEWSE; SLIGHTLY PLASTIC; SLIGHTLY MOIST. | CLAY; SOME SILT; SOME FINE TO COARSE SAND; TRC FINE PEBBLES. 107R \$/3 - 4/4 BROWN TO DARK YELLOWISH BROWN MOTTLED WITH 107R 5/1 - 4/1 GRAY TO DARK GRAY; POORLY SORT; RND; DEWSE; SLIGHTLY PLASTIC; SLIGHTLY MOIST. |
| LAND SURFACE ELEVATION: 790.68 MSL TOTAL DEPTH DRILLED: 59.38 BLS TOTAL DEPTH ELEVATION: 731.30 MSL COMPLETION DEPTH: 59.38 BLS | LITHOLOGIC C LITH | | CLAY; SOME SILT; SOME FI 10YR 4/3 - 4/4 BROMN TO 5Y 5/2 - 4/2 OLIVE GRAY; PLASTIC; SLIGHTLY MOIST. | CLAY; SOME SILT; SOME FI 10YR 4/3 - 4/4 BROWN TO 10YR 5/1 - 4/1 GRAY TO I SLIGHTLY PLASTIC; SLIGHI | CLAY; SOME SILT; SOME FI 10YR 4/3 - 4/4 BROUN TO 10YR 5/1 - 4/1 GRAY TO SLIGHTLY PLASTIC; SLIGHT |
| LAND SUR TOTAL DE TOTAL DE COMPLETI | SOIL TYPE I (USCS) | | ಕ | ಕ | ರ |
| | RECOVERY (FT) | | 4. | r. | 2 |
| | BOTTOM SAMPLE (FT BLS) | | 7.0 | 12.0 | 17.0 |
| × | TOP OF SAMPLE (FT BLS) | | 0.0 | 0.0 | 15.0 |
| 4-02 ST: KATE FOX 3/39-41 9/5/90 | BLOW | | 4-19-14-19 | 5-9-15-22 | 4-9-14-20 |
| WELL BORING NO.: MW4-02 SUPERVISORY GEOLOGIST: KATE LOG BOCK/PG. NO. : 3/39-41 DRILLING STARTED: 9/5/90 WELL COMPLETED: 9/5/90 | SAMPLE | | 5.0 M46-2-1 4 | ML6-2-2 | M.4.2-3 |
| WELL BOR! SUPERVISK LOG BOOK, DRILLING WELL COM | DEPTH (FT BLS) | 0.0 | B-46 | 0.01 | 15.0 |

| HAU S RESULTS (PPM) | # | ž | • | * | ¥ |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LEL RESULTS X | 8 8 | 8 60 | 3 | 3 | 8 |
| LITHOLOGIC DESCRIPTION | CLAY; SOME SILT; TRC FINE TO COARSE SAND; TRC V. FINE TO COARSE PEBBLES (UP TO 3 CM). 10YR 5/1 - 4/1 GRAY TO DARK GRAY; POORLY SORT; RND TO SUBR; DENSE; PLASTIC; MOIST. | 0.0 - 1.151; CLAY; SOME SILT; SOME FINE TO COARSE SAND; TRC V. FINE TO COARSE PEBLES. 10YR 5/1 - 4/1 GRAY TO DARK GRAY; POORLY SORT; RND TO SUBR; PLASTIC; WOIST. 1.4 FT SANDY CLAY; SOME TO AND SAND; SOME V. FINE TO COARSE SILT SAND; TRC TO SOME V. FINE TO COARSE PEBBLES (UP TO 10M). 10YR 4/1 - 5/1 DARK GRAY TO GRAY; POORLY SORT; RND TO SUBR; V. DENSE; NON-PLASTIC; SLIGHTLY MOIST TO DRY. | SANDY CLAY; SOME TO AND SAND; SOME V. FINE TO COARSE SILT SAND; TC TO SOME V. FINE TO COARSE PEBBLES (UP TO 1CM). 10YR 4/1 - 5/1 DARK GRAY TO GRAY; POCRLY SORT; RND TO SUBR; V. DENSE; NON-PLASTIC; SLIGHTLY MOIST TO DRY. | SANDY CLAY; SOME TO AND SAND; SOME V. FINE TO COARSE SILT SAND; TRC TO SOME V. FINE TO COARSE PEBBLES UP TO TCM 10YR 4/1 - 5/1 DARK GRAY TO GRAY; POORLY SORT; RND TO SUBR; V. DENSE; NON-PLASTIC; MOIST TO SLIGHTLY WET. LAST 1" SILTY SAND; V. FINE TO COARSE SAND; SOME SILT; SOME V. FINE TO COARSE PEBBLES(UP TO .5CM). 5Y 4/1 - 5/1 DARK GRAY TO GRAY; POORLY SORT; RND TO SUBR; DENSE; NON-PLASTIC; WET. | SANDY CLAY; SOME TO AND SAND; SOME V. FINE TO COARSE SAND; TRC TO SOME V. FINE TO COARSE PEBBLES UP TO 1CM 10YR 4/1 - 5/1 DARK GRAY TO GRAY; POORLY SORT; RND TO SUBR; V. DENSE; NOW-PLASTIC; MOIST TO WET. MATERIAL SILTY SAND; V. FINE TO COARSE SAND; SOME SILT; SOME V. FINE TO COARSE PEBBLES(UP TO .5CM). 5Y 4/1 - 5/1 DARK GRAY TO GRAY; POORLY SORT; RND TO SUBR; DENSE; NOW-PLASTIC; SLIGHTLY SAT. |
| S LITHOLOGIC C SYMBOLS R | | | | | |
| SOIL TYPE (USCS) | ಕ . | ರ | ರ | ರ | ರ |
| RECOVERY (FT) | ā | . . | 0.1 | 80. | 6 |
| BOTTOM SAMPLE (FT BLS) | 22.0 | 27.0 | 32.0 | 37.0 | 42.0 |
| TOP OF SAMPLE (FT BLS) | 20.0 | 25.0 | 30.0 | 35.0 | 0.0 |
| BLOW | 6-12-14-15 | 2-4-14-45 | 40-50 | 35-50 | 30-50 |
| SAMPLE | ML4-2-4 | 25.0 M44-2-5 | 30.0 MM-2-6 | 35.0 MM-2-7 | FF46-2-8 |
| DEPTH (FT BLS) | 20.0 | 25. | B-47 | 35.0 | 0.04 |

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|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RESULTS (PPR) | ± | • | 0 |
| LEL RESULTS X | ax ax | BKG0 | 8 |
| LITHOLOGIC DESCRIPTION | SAMDY CLAY; SOWE TO AND SAND; SOME V. FINE TO COARSE SILT SAND; TRC TO SOME V. FINE TO COARSE PEBBLES (UP TO 1CH) 10YR 4/1 - 5/1 SANC GRAY TO GRAY; POORLY SORT; RND TO SUBR; V. DENSE; MON-PLASTIC; SLIGHTLY SAT. LAST 1" SILTY SAND; V. FINE TO COARSE SAND; SOME SILT; SOME V. FINE TO COARSE PEBBLES(UP TO .5CH). 5Y 4/1 - 5/1 DARK GRAY TO GRAY; POORLY SORT; RND TO SUBR; DENSE; NOM-PLASTIC; SLIGHTLY SAT. | SANDY SILT CLAY-CLAY; SOME SILT; SOME FINE TO COARSE SAND, TRC V.FINE TO COARSE (UP TO 1CM) GRÂVEL. 5YR 4/1 DARK GRAY; POORLY SORT; RND TO SUBR; DENSE; MON-PLASTIC; SLIGHTLY MOIST. | SAND; SOME SILT; TRC CLAY; V. FINE TO V. COARSE SAND; TRC TO SOME FINE TO COARSE PEBBLES (PEBBLES UP TO 2CM). 5YR 4/1 DARK GRAY; POORLY SORT; RND TO SUBR; LOOSE; WON-PLASTIC; SAT. |
| LITHOLOGIC C SYMBOLS R | | | 1 1 1 1 1 1 |
| SOIL TYPE (USCS) | ಕ | ರ | S. |
| RECOVERY (FT) | 0.7 | | © |
| BOTTOM SAMPLE (FT BLS) | 0.74 | 52.0 | 57.0 |
| TOP OF SAMPLE (FT BLS) | 45.0 | 50.0 | 55.0 |
| BLOW | 45-50 | 35-65 | 27-50 |
| SAMPLE | 45.0 M44-2-9 | 50.0 M44-2-10 | 55.0 MM-2-11 |
| DEPTH (FT BLS) | 45.0 | 50.0 | B-48 |

| Well No. | : MW1-01 | Drilling Company | : | MATHES ENV. SERV. |
|-----------------------|---------------------|-----------------------------------------|---|-------------------|
| U.S.G.S. Coordinates | : | Rig Type | : | CHE - 550 |
| Longt i tude | : 0.00 | Driller | : | K. BUNSELMEYER |
| Latitude | : 0.00 | Drilling Started (Date) | : | 9/6/90 |
| State Coordinates | : | Drilling Completed (Date) | : | 9/7/90 |
| Northings | : 634,506.42 | • • • • • • • • • • • • • • • • • • • • | : | |
| Eastings | : 1,267,167,30 | Completion Depth | : | 47.24 |
| Reference Point | : TOP OF PVC CASING | - F | : | |
| Reference Point Elev. | : 807.28 | Development | : | |
| Type of Security | : LOCKING CAP | Date | : | 9/8/90 |
| • | | Туре | : | COMPRESSED AIR |
| Supervisory Geologist | : KATE FOX | Volume Removed | : | 110 GAL. |
| Log Book/Page No. | : 3/46-49 | | : | |
| | • | Post Devel. Water Level | : | 767.29 |
| | | Date | : | 9/8/90 |
| | | | : | |
| | | Hydraulic Conductivity | : | MR CM/SEC |

| MONITORING | WELL AS-BUILT | | BLS | MSL |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------|-----------------------|------------------|
| | Steel Casing with Cap and lock | • | NR | 804.37 |
| | Top of Riser w/Vented Cap and Eyebolt | + | 2.91 | 807.28 |
| | Land Surface: | | 0.00 | 804.37 |
| | Cement Bentonite Grout: | Top Bottom | 0.00 3 0.40 | 804.37 773.97 |
| | Riser: | Top + Bottom | 2.91 34.45 | 807.28 769.92 |
| | Water Level During Drilling: | | NR | 804.37 |
| | Seal: | Top Bottom | 30.40 32.50 | 773.97 771.87 |
| | Screen: | Top Bottom | 34.45 45.13 | 769.92 759.24 |
| | Sand Pack: | Top Bottom | 32.50 47.24 | 771.87 757.13 |
| | Bottom Sump: | Top Bottom | 45.13 47.24 | 759.24 757.13 |
| Accession of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the American State of the Ameri | Borehole Total Depth: | | 47.24 | 757.13 |

NOT TO SCALE

All measurements in feet unless otherwise noted BLS - Below Land Surface MSL - Mean Sea Level + Indicates an Above Land Surface (ALS) measurement

| Well No. | : MW1-02 | Drilling Company | : MATHES ENV. SERV. |
|-----------------------|---------------------|---------------------------|---------------------|
| U.S.G.S. Coordinates | : | Rig Type | : CME - 550 |
| Longtitude | : 0.00 | Driller | : K. BUNSELMEYER |
| Latitude | : 0.00 | Drilling Started (Date) | : 9/6/90 |
| State Coordinates | | Drilling Completed (Date) | : 9/6/90 |
| Northings | : 634,639.96 | | : |
| Eastings | : 1,267,330.69 | Completion Depth | : 52.56 |
| Reference Point | : TOP OF PVC CASING | | : |
| Reference Point Elev. | : 810.21 | Development | : |
| Type of Security | : LOCKING CAP | Date | : 9/7/90 |
| | | Туре | : COMPRESSED AIR |
| Supervisory Geologist | : KATE FOX | Volume Removed | : 128.3 GAL |
| Log Book/Page No. | : 3/43-46 | | -: |
| • | | Post Devel. Water Level | : 769 <i>.</i> 60 |
| | | Date | : 9/7/90 |
| | | | : |
| | | Hydraulic Conductivity | : NR CM/SEC |

| MONITORIN | G WELL AS-BUILT | | BLS | MSL |
|-----------|---------------------------------------|-----------------|----------------|------------------|
| | Steel Casing with Cap | + | NR | 807.23 |
| | Top of Riser w/Vented Cap and Eyebolt | • | 2.98 | 810.21 |
| | Land Surface: | | 0.00 | 807.23 |
| | Cement Bentonite Grout: | Top Bottom | 0.00 37.30 | 807.23 769.93 |
| | Riser: | Top + Bottom | 2.98 39.78 | 810.21 767.45 |
| | Water Level During Drilling | : | 40.61 | 766.62 |
| | Seal: | Top Bottom | 34.30 37.30 | 772.93 769.93 |
| | Screen: | Top Bottom | 39.78 50.41 | 767.45 756.82 |
| | Sand Pack: | Top Bottom | 37.30 52.56 | 769.93 754.67 |
| | Bottom Sump: | Top Bottom | 50.41 52.56 | 756.82 754.67 |
| | Borehole Total Depth: | | 52.56 | 754.67 |

| Well No. | : MW2-01 | Drilling Company | : | MATHES ENV. SERV. |
|--------------------------------|---------------------------------------|---------------------------|---|-------------------------------------|
| USGS Coordinates | : | Rig Type | : | CME - 550 |
| Long i tude | : 0.00 | Driller | : | K. BUMSELMEYER |
| Latitude | : 0.00 | Drilling Started (Date) | • | 9/7/90 |
| State Coordinates Northings | : 634.627.69 | Drilling Completed (Date) | : | |
| Eastings | : 1,268,860.36 : TOP OF PVC CASING | Completion Depth | : | 58.19 |
| Reference Point | | David anamana | | |
| Reference Point Elev. | : 800.72 | Developement | _ | 0.00.000 *** 0.410.000 |
| Type of Security | : LOCKING CAP | Date Type | | 9/9/90 to 9/10/90 COMPRESSED AIR |
| Supervisory Geologist | : KATE FOX | Volume Removed | : | NR |
| Log Book/Page No. | : 4/31-37 | Post Devel. Water Level | : | 757.81 |
| | | Date | : | 8/30/90 |
| | | Hydraulic Conductivity | : | HR CM/SEC |

| | BLS | MSL |
|------------------------------------|----------------|--------------------------|
| Land Surface | 0.00 | 801.17 |
| Flush Mount Vault (approx.) + | MR | 801.17 |
| Top of Riser w/Water-tight Cap | 0.45 | 800.72 |
| Protective Casing w/ Locking Cap | MR | 801.17 |
| Cement/Bentonite Grout: Top Bottom | NR 41.00 | 801.17 760.17 |
| Riser: Top Bottom | 0.45 45.43 | 800.72 755.74 |
| Water Level During Drilling: | 42.91 | 758.26 |
| Seal: Top Bottom | 41.00 43.00 | 760.17 7 58.17 |
| Screen; Top Bottom | 45.43 56.06 | 755.74 745.11 |
| Sand Pack: Top Bottom | 43.00 58.19 | 758.17 742.98 |
| Bottom Sump: Top Bottom | 56.06 58.19 | 745.11 742.98 |
| Borehole Total Depth: | 58.19 | 742.98 |

NOT TO SCALE

| Well No. | : MM4-01 | Drilling Company | : | MATHES ENV | . SERV. |
|--------------------------------------------|---------------------------------------|---------------------------|---|----------------------|---------|
| USGS Coordinates | : | Rig Type | : | CHE - 550 | |
| Longi tude | : 0.00 | Driller | : | K. BUNSELM | EYER |
| Latitude | : 0.00 | Drilling Started (Date) | : | 8/31/90 | |
| State Coordinates Northings | : : 634,768.31 | Drilling Completed (Date) | : | | |
| Eastings Reference Point | : 1,270,008.55 : TOP OF PVC CASING | Completion Depth | : | 53.51 | |
| Reference Point Tlev. | : 796.52 | Developement | | | |
| Type of Security | : LOCKING CAP | Date Type | : | 9/4/90 COMPRESSED | AIR |
| Supervisory Geologist Log Book/Page No. | : KATE FOX : 3/35-38 | Volume Removed | : | 9 GAL. | |
| | | Post Devel. Water Level | : | 748.48 | |
| | | Date | : | 9/9/90 | |
| | | Hydraulic Conductivity | : | NR | CM/SEC |

| | BLS | MSL |
|------------------------------------|----------------|------------------|
| Land Surface | 0.00 | 796.91 |
| Flush Mount Vault (approx.) + | 0.10 | 797.01 |
| Top of Riser w/Water-tight Cap | 0.39 | 796.52 |
| Protective Casing w/ Locking Cap | NR | 796.91 |
| Cement/Bentonite Grout: Top Bottom | NR 33.50 | 796.91 763.41 |
| Riser: Top Bottom | 0.39 41.03 | 796.52 755.88 |
| Water Level During Drilling: | 38.90 | 758.01 |
| Seal: Top Bottom | 33.50 38.90 | 763.41 758.01 |
| Screen: Top Bottom | 41.03 51.37 | 755.88 745.54 |
| Sand Pack: Top Bottom | 38.90 54.00 | 758.01 742.91 |
| Bottom Sump: Top Bottom | 51.37 53.52 | 745.54 742.91 |
| Borehole Total Depth: | 54.01 | 742.90 |

NOT TO SCALE

| Well No. | : MJ4-02 | Drilling Company | : MATHES ENV. SERV. |
|--------------------------------|---------------------|-----------------------------------------|------------------------------|
| U.S.G.S. Coordinates | : | Rig Type | : CME - 550 |
| Longt i tude | : 0.00 | Driller | : K. BUNSELMEYER |
| Latitude | : 0.00 | Drilling Started (Date) | : 9/5/90 |
| State Coordinates Northings | : : 635,550,12 | Drilling Completed (Date) | : 9/6/90 |
| Eastings | : 1,270,055.11 | Completion Depth | 59.38 |
| Reference Point | : TOP OF PVC CASING | | : |
| Reference Point Elev. | : 793.2 7 | Development | : |
| Type of Security | : LOCKING CAP | Date Type | : 9/7/90 : COMPRESSED AIR |
| Supervisory Geologist | : KATE FOX | Volume Removed | : 55 GAL. |
| Log Book/Page No. | : 3/39-43 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | : |
| | | Post Devel. Water Level Date | : 756.33 : 9/7/90 |
| | | Hydraulic Conductivity | : NR CM/SEC |

| | • | | BLS | MSL |
|---------|------------------------------------------|-----------------|----------------|------------------|
| | Steel Casing with Cap | • | 2.83 | 793.51 |
| 8 8 8 8 | Top of Riser w/Vented Cap and Eyebolt | + | 2.59 | 793. 27 |
| | Land Surface: | | 0.00 | 790.68 |
| | Cement Bentonite Grout: | Top Bottom | 0.00 41.00 | 790.68 749.68 |
| | Riser: | Top + Bottom | 2.59 46.50 | 793.27 744.18 |
| | Water Level During Drilling | : | 34.30 | 756.38 |
| | Seal: | Top Bottom | 41.00 45.00 | 749.68 745.68 |
| | Screen: | Top Bottom | 46.50 57.25 | 744.18 733.43 |
| | Sand Pack: | Top Bottom | 45.00 59.38 | 745.68 731.30 |
| 20000 | Bottom Sump: | Top Bottom | 57.25 59.38 | 733.43 731.30 |
| | Borehole Total Depth: | | 59.38 | 731.30 |

All measurements in feet unless otherwise noted BLS - Below Land Surface MSL - Mean Sea Level (+) Signifies Above Land Surface (ALS) measurements

| Well No. | : P-1 | Drilling Company | : | MATHES ENV. SERV |
|--------------------------------------------|---------------------------------------|---------------------------|---|---------------------------|
| USGS Coordinates | • | Rig Type | : | DIE - 550 |
| Longitude | : 0.00 | Driller | • | K. BUNSELMEYER |
| Latitude | : 0.00 | Drilling Started (Date) | | 8/17/90 |
| State Coordinates Northings | : : 635,550.12 | Drilling Completed (Date) | : | 8/18/90 |
| Eastings Reference Point | : 1,270,055.11 : TOP OF PVC CASING | Completion Depth | : | 38.35 |
| Reference Point Elev. | : 786.74 | Developement | | |
| Type of Security | : LOCKING CAP | Date Type | | 8/20/90 COMPRESSED AIR |
| Supervisory Geologist Log Book/Page No. | : KATE FOX : 3/8-10 | Volume Removed | : | 18 GAL. APPROX. |
| tog book, age no. | . 5,0 .0 | Post Devel. Water Level | : | 756.93 |
| | | Date | : | 8/30/90 |
| | | Hydraulic Conductivity | : | NR CM/SEC |

| | | BLS | MSL |
|----------------------------------|-----------|----------------|------------------|
| Land Surface | | 0.00 | 787.13 |
| Flush Mount Vault (approx.) | + | 0.10 | 7 87.23 |
| Top of Riser w/Water-tight Cap | | 0.39 | 786.74 |
| Protective Casing w/ Locking Cap | | NR | 787.13 |
| Cement/Bentonite Grout: To | p ttom | NR 28.50 | 787.13 758.63 |
| Riser: To | p ttom | 0.39 35.00 | 786.74 752.13 |
| Water Level During Drilling: | | 25.55 | 761.58 |
| Seal: To | p ttom | 28.50 30.50 | 758.63 756.63 |
| Screen: To | p ttom | 35.00 38.03 | 752.13 749.10 |
| Sand Pack: To | p ttom | 30.50 39.00 | 756.63 748.13 |
| Bottom Sump: To | p ttom | 38.03 38.35 | 749.10 748.13 |
| Borehole Total Depth: | | 39.00 | 748.13 |

NOT TO SCALE

| Well No. | : P-2 | Drilling Company | : | MATHES ENV. SERV. |
|-----------------------|---------------------|---------------------------|---|-------------------|
| USGS Coordinates | : | Rig Type | : | CME - 550 |
| Long i tude | : 0.00 | Driller | : | K. BUNSELMEYER |
| Latitude | : 0.00 | Drilling Started (Date) | : | |
| State Coordinates | : | Drilling Completed (Date) | : | 8/17/90 |
| Northings | : 634,813.02 | | | |
| Eastings | : 1,270,144.40 | Completion Depth | : | 53.01 |
| Reference Point | : TOP OF PVC CASING | , | | |
| Reference Point Elev. | : 795.42 | Developement | | |
| Type of Security | : LOCKING CAP | Date | : | 8/27/90 9/10/90 |
| | | Type | : | COMPRESSED AIR |
| Supervisory Geologist | : KATE FOX | Volume Removed | : | 55 GAL. APPROX:30 |
| Log Book/Page No. | : 3/5-8 | | | |
| | | Post Devel. Water Level | : | 756.70 |
| | | Date | : | 9/10/90 |
| | | Hydraulic Conductivity | : | NR CM/SEC |
| | | | | |

| | BLS | MSL |
|------------------------------------|----------------|------------------|
| Land Surface | 0.00 | 795.92 |
| Flush Mount Vault (approx.) + | 0.05 | 795.97 |
| Top of Riser w/Water-tight Cap | 0.50 | 795.42 |
| Protective Casing w/ Locking Cap | HR | 795.92 |
| Cement/Bentonite Grout: Top Bottom | NR 43.00 | 795.92 752.92 |
| Riser: Top Bottom | 0.50 48.00 | 795.42 747.92 |
| Water Level During Drilling: | 46.50 | 749.42 |
| eal: Top Bottom | 43.00 45.00 | 752.92 750.92 |
| Screen: Top Bottom | 48.00 53.01 | 747.92 742.91 |
| Sand Pack: Top Bottom | 45.00 55.00 | 750.92 740.92 |
| Bottom Sump: Top Bottom | 53.01 53.30 | 742.91 740.92 |
| Borehole Total Depth: | 55.00 | 740.92 |

NOT TO SCALE

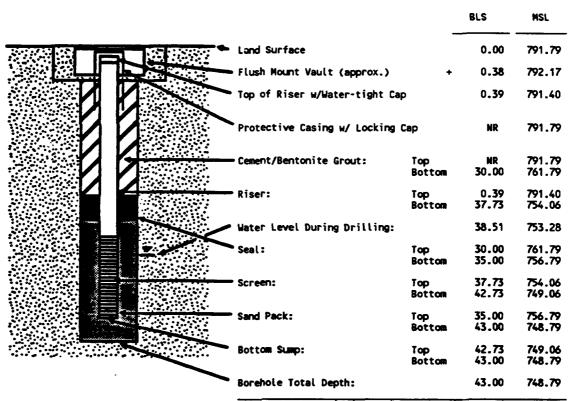
| Well No. | : P-3 | Drilling Company | : | MATHES ENV. SE | RV. |
|--------------------------------------------|-------------------------|---------------------------|---|----------------|-----|
| USGS Coordinates | • | Rig Type | : | CME - 550 | |
| Longitude | 0.00 | Dritler | : | K. BUNSELMEYER | t |
| Latitude | : 0.00 | Drilling Started (Date) | : | 8/18/90 | - |
| State Coordinates Northings | : 634,212.94 | Drilling Completed (Date) | : | 8/19/90 | |
| Eastings | : 1,268,777.79 | Completion Depth | : | 35.42 | |
| Reference Point | : TOP OF PVC CASING | | | | |
| Reference Point Elev. | : <i>7</i> 97.30 | Developement | | | |
| Type of Security | : LOCKING CAP | Date | : | 8/30/90 | |
| • | | Type | : | COMPRESSED ATE | t |
| Supervisory Geologist Log Book/Page No. | : KATE FOX : 3/13-16 | Volume Removed | : | 30 GAL. APPROX | (. |
| Log Book, Lago Roll | , | Post Devel. Water Level | : | 766.09 | |
| | | Date | : | 8/30/90 | |
| | | Hydraulic Conductivity | : | NR CH/S | SEC |

| | BLS | MSL |
|------------------------------------|----------------|------------------|
| Early Surface | 0.00 | 797.80 |
| Flush Mount Vault (approx.) + | 0.03 | 797.83 |
| Top of Riser w/Water-tight Cap | 0.50 | 797.30 |
| Protective Casing w/ Locking Cap | NR | 797.80 |
| Cement/Bentonite Grout: Top Bottom | NR 26.00 | 797.80 771.80 |
| Riser: Top Bottom | 0.50 30.08 | 797.30 767.72 |
| Water Level During Drilling: | 32.50 | 765.30 |
| Seal: Top Bottom | 26.00 28.00 | 771.80 769.80 |
| Screen: Top Bottom | 30.08 35.10 | 767.72 762.70 |
| Sand Pack: Top Bottom | 28.00 36.00 | 769.80 761.80 |
| Bottom Sump: Top Bottom | 35.10 35.42 | 762.70 761.80 |
| Borehole Total Depth: | 36.00 | 761.80 |

NOT TO SCALE

Well No. USGS Coordinates P-4 Drilling Company MATHES ENV. SERV. Rig Type Driller CHE - 550 K. BUNSELMEYER 0.00 Longitude 8/18/90 Latitude Drilling Started (Date) 0.00 State Coordinates 8/18/90 Drilling Completed (Date) Northings : 635,098.79 : 1,268,826.73 : TOP OF PVC CASING Eastings Completion Depth : 42.73 Reference Point Reference Point Elev. 791.40 **Developement** Type of Security : LOCKING CAP 8/23/90 Date COMPRESSED AIR Type Supervisory Geologist Log Book/Page No. : KATE FOX 55 GAL. APPROX. Volume Removed : 3/10-13 760.96 Post Devel. Water Level 8/30/90 **Hydraulic Conductivity** CH/SEC NR

MONITORING WELL AS-BUILT



NOT TO SCALE

All measurements in feet unless otherwise noted

BLS - Below Land Surface

MSL - Mean Sea Level

+ Indicates an Above Land Surface (ALS) measurement

| Well No. | : P-5 | Drilling Company | : | MATHES EN | IV. SERV. |
|--------------------------------|---------------------|---------------------------|---|-----------|-----------|
| USGS Coordinates | : | Rig Type | : | CME - 550 |) |
| Longitude | : 0.00 | Driller | : | K. BUNSEL | MEYER |
| Latitude | : 0.00 | Drilling Started (Date) | : | 8/22/90 | |
| State Coordinates Northings | : : 634,273.05 | Drilling Completed (Date) | : | 8/23/90 | |
| Eastings | : 1,267,157.32 | Completion Depth | : | 35.00 | |
| Reference Point | : TOP OF PVC CASING | | | | |
| Reference Point Elev. | : 796.81 | Developement | | | |
| Type of Security | : LOCKING CAP | Date ` | : | 8/28/90 | |
| , | | Type | : | COMPRESSE | DAIR |
| Supervisory Geologist | : KATE FOX | Volume Removed | : | 17 GAL. | |
| Log Book/Page No. | : 3/26-29 | | | | |
| | | Post Devel. Water Level | : | 766.20 |) |
| | | Date | : | 8/30/90 | |
| | | Hydraulic Conductivity | : | NR | CM/SEC |

| | BLS | MSL |
|----------------------------------|------------------|------------------|
| Land Surface | 0.00 | 797.23 |
| Flush Mount Vault (approx.) | + 0.14 | 797.37 |
| Top of Riser w/Water-tight Cap | 0.42 | 796.81 |
| Protective Casing w/ Locking Cap | NR | 797.23 |
| Cement/Bentonite Grout: Top | NR n 25.50 | 797.23 771.73 |
| Riser: Top Bottom | 0.42 n 29.64 | 796.81 767.59 |
| Water Level During Drilling: | NR | 797.23 |
| Seal: Top Bottom | 25.50 n 27.50 | 771.73 769.73 |
| Screen: Top Bottom | 29.64 n 34.65 | 767.59 762.58 |
| Sand Pack: Top Bottom | 27.50 n 35.00 | 769.73 762.23 |
| Bottom Sump: Top Bottom | 34.65 n 35.00 | 762.58 762.23 |
| Borehole Total Depth: | 35.00 | 762.23 |

NOT TO SCALE

| Well No. | : P-6 | Drilling Company | : | MATHES ENV. SERV |
|--------------------------------------------|---------------------------------------|---------------------------|---|---------------------------|
| USGS Coordinates | : | Rig Type | : | CHE - 550 |
| Long i tude | : 0.00 | Driller | : | K. BUNSELMEYER |
| Latitude | : 0.00 | Drilling Started (Date) | : | 8/21/90 |
| State Coordinates Northings | : : 634,634.95 | Drilling Completed (Date) | : | 8/21/90 |
| Eastings Reference Point | : 1,267,032.08 : TOP OF PVC CASING | Completion Depth | : | 43.35 |
| Reference Point Elev. | : 802.86 | Development | | |
| Type of Security | : LOCKING CAP | Date Type | : | 8/28/90 COMPRESSED AIR |
| Supervisory Geologist Log Book/Page No. | : KATE FOX : 3/22-24 | Volume Removed | : | 25 GAL. APPROX. |
| - | | Post Devel. Water Level | : | 766.19 |
| | | Date | : | 8/30/90 |
| | | Hydraulic Conductivity | : | NR CM/SEC |

| | BLS | MSL |
|----------------------------------|----------------|------------------|
| Land Surface | 0.00 | 803.26 |
| Flush Mount Vault (approx.) + | 0.01 | 803.27 |
| Top of Riser w/Water-tight Cap | 0.40 | 802.86 |
| Protective Casing W/ Locking Cap | NR | 803.26 |
| Cement/Bentonite Grout: Top | NR 34.00 | 803.26 769.26 |
| Riser: Top Bottom | 0.40 37.98 | 802.86 765.28 |
| Water Level During Drilling: | 41.31 | 761.95 |
| Seal: Top Bottom | 34.00 35.99 | 769.26 767.27 |
| Screen: Top Bottom | 37.98 43.03 | 765.28 760.23 |
| Sand Pack: Top Bottom | 35.99 44.00 | 767.27 759.26 |
| Bottom Sump: Top Bottom | 43.03 43.35 | 760.23 759.26 |
| Borehole Total Depth: | 44.00 | 759.26 |

NOT TO SCALE

| Well No. | : P-7 | Drilling Company | : | MATHES ENV. SERV. |
|--------------------------------------------|---------------------------------------|---------------------------|---|-----------------------|
| USGS Coordinates | : | Rig Type | : | CME - 550 |
| Longitude | : 0.00 | Driller | • | K. BUNSELMEYER |
| Latitude | : 0.00 | Drilling Started (Date) | : | 8/19/90 |
| State Coordinates Northings | : 634,640.93 | Drilling Completed (Date) | : | |
| Eastings Reference Point | : 1,267,690.04 : TOP OF PVC CASING | Completion Depth | : | 27.50 |
| Reference Point Elev. | : 803.47 | Developement | | |
| Type of Security | : LOCKING CAP | Date Type | | N/A COMPRESSED AIR |
| Supervisory Geologist Log Book/Page No. | : KATE FOX : 3/16-19 | Volume Removed | : | N/A |
| | , | Post Devel. Water Level | : | 803.4/ |
| | | Date | : | N/A |
| | | Hydraulic Conductivity | : | NR CM/SEC |

| | BLS | MSL |
|------------------------------------|----------------|------------------|
| Land Surface | 0.00 | 803.86 |
| Flush Mount Vault (approx.) + | 0.20 | 804.06 |
| Top of Riser w/Water-tight Cap | 0.39 | 803.47 |
| Protective Casing w/ Locking Cap | NR | 803.86 |
| Cement/Bentonite Grout: Top Bottom | NR 17.50 | 803.86 786.36 |
| Riser: Top Bottom | 0.39 22.12 | 803.47 781.74 |
| Water Level During Drilling: | 17.10 | 786.76 |
| Seal: Top Bottom | 17.50 20.00 | 786.36 783.86 |
| Screen: Top Bottom | 22.12 27.18 | 781.74 776.68 |
| Sand Pack: Top Bottom | 20.00 27.50 | 783.86 776.36 |
| Bottom Sump: Top Bottom | N/A | 803.86 776.36 |
| Borehole Total Depth: | 27.50 | 776.36 |

NOT TO SCALE

| Well No. | : P-8 | Deilliam Company | | MATUES FIN | |
|-----------------------|---------------------|---------------------------|---|------------|--------------|
| | : F-0 | Drilling Company | | MATHES EN | . SERV. |
| USGS Coordinates | : | Rig Type | : | CHE - 550 | |
| Longi tude | : 0.00 | Driller | : | K. BUNSELI | E YER |
| Latitude | : 0.00 | Drilling Started (Date) | : | 8/21/90 | |
| State Coordinates | : | Drilling Completed (Date) | : | 8/21/90 | |
| Northings | : 634,462,52 | • , | | | |
| Eastings | : 1,267,111.25 | Completion Depth | : | 37,40 | |
| Reference Point | : TOP OF PVC CASING | | _ | | |
| Reference Point Elev. | : 796.73 | Developement | | | |
| Type of Security | : LOCKING CAP | Date | : | 8/28/90 | |
| ., | - | Type | : | COMPRESSE | ATP |
| Supervisory Geologist | : KATE FOX | Volume Removed | : | 25 GAL. | , A.K |
| Log Book/Page No. | : 3/24-26 | TOTOLIC ROMOTOG | • | LJ GAL. | |
| Log Book/rage No. | . 3/24-20 | Post Devel. Water Level | | 766,15 | |
| | | | • | | |
| | | Date | : | 8/30/90 | |
| | | Hydraulic Conductivity | : | NR | CM/SEC |

| | BLS | HSL |
|------------------------------------|----------------|------------------|
| Land Surface | 0.00 | 797.17 |
| Flush Mount Vault (approx.) + | 0.05 | 797.22 |
| Top of Riser w/Water-tight Cap | 0.44 | 796.73 |
| Protective Casing W/ Locking Cap | NR | 797.17 |
| Cement/Bentonite Grout: Top Bottom | NR 28.00 | 797.17 769.17 |
| Riser: Top Bottom | 0.44 32.02 | 796.73 765.15 |
| Water Level During Drilling: | NR | 79 7.17 |
| Seal: Top Bottom | 28.00 30.00 | 769.17 767.17 |
| Screen: Top Bottom | 32.02 37.09 | 765.15 760.08 |
| Sand Pack: Top Bottom | 30.00 38.00 | 767.17 759.17 |
| Bottom Sump: Top Bottom | 37.09 37.40 | 760.08 759.17 |
| Borehole Total Depth: | 38.00 | 759.17 |

NOT TO SCALE

| Well No. | : P-9 | Drilling Company | : | MATNES ENV. | . SERV. |
|-----------------------------|---------------------|---------------------------|---|-------------|---------|
| USGS Coordinates | : | Rig Type | : | CHE - 550 | |
| Long i tude | : 0.00 | Driller | : | K. BUNSELM | EYER |
| Latitude | : 0.00 | Drilling Started (Date) | : | 8/21/90 | |
| State Coordinates Northings | : : 634,528.55 | Drilling Completed (Date) | : | | |
| Eastings | : 1,267,402.21 | Completion Depth | : | 36.69 | |
| Reference Point | : TOP OF PVC CASING | • | | | |
| Reference Point Elev. | : 795.37 | Developement | | | |
| Type of Security | : LOCKING CAP | Date | : | 8/28/90 | |
| .,,, | | Type | : | COMPRESSED | AIR |
| Supervisory Geologist | : KATE FOX | Volume Removed | : | 15 GAL. | |
| Log Book/Page No. | : 3/20-21 | | | | |
| | | Post Devel. Water Level | : | 766.18 | |
| | | Date | : | 8/30/90 | |
| | | Hydraulic Conductivity | : | NR (| CM/SEC |

| | _ | BLS | MSL |
|----------------------------------|-----|----------------|------------------|
| Land Surface | Ī | 0.00 | 795.78 |
| Flush Mount Vault (approx.) | + | 0.06 | 795.84 |
| Top of Riser w/Water-tight Cap | | 0.41 | 795.37 |
| Protective Casing w/ Locking Cap | | NR | 795.78 |
| Cement/Bentonite Grout: Top | :om | NR 27.30 | 795.78 768.48 |
| Riser: Top | om | 0.41 30.63 | 795.37 765.15 |
| Water Level During Drilling: | | 29.00 | 766.78 |
| Seal: Top | :om | 27.30 29.30 | 768.48 766.48 |
| Screen: Top | om | 30.63 36.69 | 765.15 759.09 |
| Sand Pack: Top | om: | 29.30 37.00 | 766.48 758.78 |
| Bottom Sump: Top Bott | OM | 36.69 37.00 | 759.09 758.78 |
| Borehole Total Depth: | | 37.00 | 758.78 |

NOT TO SCALE

APPENDIX C
SAMPLE LOCATION SURVEY COORDINATES

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Table C-1. Survey Coordinates for Sample Locations at Indiana Air National Guard Base, Fort Wayne, Indiana

| Description | Northing | Easting | Land Surface Elevation | Top of Casing Elevation |
|-------------|---------------------------------------------------|-------------|---------------------------|----------------------------|
| SB1-1(90) | 1267436.590 | 634522.263 | 795.61 | |
| SB1-2(90) | 1267259.897 | 634582.154 | 806.27 | |
| SB1-3(90) | 1267211.727 | 634562.6447 | 805.31 | |
| SB1-4(90) | 1267168.927 | 634485.128 | 803.06 | |
| SB1-5(91) | 1267198.659 | 634544.499 | 804.66 | |
| SB1-6(91) | 1267276.494 | 634536.918 | 805.71 | |
| SB1-7(91) | 1267247.629 | 634468.413 | 803.66 | |
| SB1-8(91) | 1267161.329 | 634441.327 | 801.61 | |
| SB1-9(91) | 1267118.218 | 634547.588 | 799.51 | |
| SB1-10(91) | 1267169.512 | 634386.429 | 799.51 | |
| SB3-1(90) | 1268800.085 | 634579.014 | 800.23 | |
| SB3-2(90) | 1268804.810 | 634570.3909 | 800.16 | |
| SB3-3(90) | 1268812.232 | 634600.1866 | 800.43 | |
| SB3-4(90) | 1268800.121 | 634596.3574 | 800.46 | |
| SB3-5(91) | 1268796.426 | 634576.046 | 799.94 | |
| SB3-6(91) | 1268822.625 | 634558.123 | 798.45 | |
| SB4-1(90) | 1269640.032 | 635086.2888 | 793.35 | |
| SB4-2(90) | 1269707.225 | 635033.3853 | 792.02 | |
| SB4-3(90) | 1269801.851 | 635034.6490 | 789.18 | *** |
| SB4-4(90) | 1269456.359 | 634948.7862 | 793.34 | |
| SB4-5(90) | 1269619.631 | 634955.6724 | 795.44 | |
| SB4-6(91) | 1269546.481 | 635213.465 | 787.52 | |
| SB4-7(91) | 1269707.137 | 635033.558 | 791.62 | |
| SB4-8(91) | 1269899.317 | 635128.215 | 787.67 | |
| BG-1(90) | Not surveyed, east of Base entrance security gate | | | |
| BG-2(91) | 1267187.618 | 634626.554 | 805.51 | |
| BG-3(91) | 1268664.986 | 635319.343 | 790.90 | |

Table C-1. Survey Coordinates for Sample Locations at Indiana Air National Guard Base, Fort Wayne, Indiana (Continued)

| Description | Northing | Easting | Land Surface Elevation | Top of Casing Elevation | |
|-------------|------------------------|--------------------------------------------|---------------------------|----------------------------|--|
| MW1-01(90) | 1267167.437 | 634506.386 | 804.37 | 807.28 | |
| MW1-02(90) | 1267330.799 | 634639.944 | 807.23 | 810.21 | |
| MW2-01(90) | 1268860.540 | 634627.760 | 801.17 | 800.72 | |
| MW4-01(90) | 1270008.548 | 634768.397 | 796.91 | 796.52 | |
| MW4-02(90) | 1270114.322 | 635224.895 | 790.68 | 793.27 | |
| P-1(90) | 1270055.117 | 635550.118 | 787.13 | 786.74 | |
| P-2(90) | 1270144.433 | 634813.033 | 795.92 | 795.42 | |
| P-3(90) | 1268777.986 | 634213.088 | 797.80 | 797.30 | |
| P-4(90) | 1268826.905 | 635098.827 | 791.79 | 791.40 | |
| P-5(90) | 1267157.474 | 634273.071 | 797.23 | 796.81 | |
| P-6(90) | 1267032.216 | 634634.893 | 803.26 | 802.86 | |
| P-7 | 1267690.037 | 634640.9323 | 803.86 | 803.47 | |
| P-8(90) | 1267111.355 | 634462.559 | 797.17 | 796.73 | |
| P-9(90) | 1267402.171 | 634528.468 | 795.78 | 795.37 | |
| SD-1 | Not surveyed, near SD | -4 | | | |
| SD-2 | Not surveyed, about 50 | Not surveyed, about 500 feet north of SD-4 | | | |
| SD-3(91) | Not surveyed, near SB | Not surveyed, near SB4-8 | | | |
| SD-4(91) | 1270517.653 | 635551.674 | 784.798 | | |

APPENDIX D
AQUIFER TEST PROCEDURES AND RESULTS
AND WATER LEVEL MEASUREMENT RESULTS

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AQTESOLV

A Program for

Automatic Estimation of Aquifer Coefficients

From Aquifer Test Data

By:

Glenn M. Duffield and James O. Rumbaugh, III

Geraghty & Miller Modeling Group 1895 Preston White Drive, Suite 301 Reston, VA 22091

(703) 476 - 0335

A Q T E S O L V is a user-friendly program designed to analyze data from aquifer tests automatically. Aquifer coefficients for a variety of aquifer test conditions can be estimated by A Q T E S O L V , including the following:

- o confined aquifers, unconfined aquifers, and leaky aquifers
- o pumping tests, injection tests, recovery tests, and slug tests

Features:

- o Interactive, menu-driven program design
- o Nonlinear least-squares estimation of aquifer coefficients
- o Statistical analysis of results
- o Complete graphical display of results

AQTESOLV RESULTS

07/90 04:09:03

PROBLEM DEFINITION

blem title: MW102A SLUG TEST

wns and Constants:

A, B, C..... 0.000, 0.000, 1.940

ANALYTICAL METHOD

wer and Rice (unconfined aquifer slug test)

RESULTS FROM STATISTICAL CURVE MATCHING

TISTICAL MATCH PARAMETER ESTIMATES

Estimate Std. Error K = 5.5646E-005 +/- 6.8050E-006y0 = 3.2785E-001 +/- 1.5003E-002

LYSIS OF MODEL RESIDUALS

idual = calculated - observed
phted residual = residual * weight

ahted Residual Statistics:

?l Residuals:

| Time | Observed | Calculated | Residual | Weight |
|--------|----------|------------|-----------|--------|
| | | | | |
| 1.25 | 0.34 | 0.30199 | 0.038006 | 1 |
| 1.3333 | 0.34 | 0.30035 | 0.039654 | 1 |
| 1.4166 | 0.34 | 0.29871 | 0.041294 | 1 |
| 1.5 | 0.34 | 0.29707 | 0.042926 | 1 |
| 1.5833 | 0.34 | 0.29545 | 0.044548 | 1 |
| 1.6667 | 0.3 | 0.29384 | 0.0061627 | 1 |
| 1.75 | 0.3 | 0.29223 | 0.0077667 | 1 |

| 1.8333 | 0.3 | 0.29064 | 0.0093619 | 1 |
|--------|------|----------|-------------|----------------------------------------------------------------------------------------|
| 1.9167 | 0.3 | 0.28905 | 0.01095 | 1 |
| 2 | 0.3 | 0.28747 | 0.012528 | 1 |
| 2.5 | 0.3 | 0.27818 | 0.02182 | 1 |
| 3 | 0.26 | 0.26919 | -0.0091891 | 1 |
| 3.5 | 0.26 | 0.26049 | -0.00048852 | ī |
| 4 | 0.22 | 0.25207 | -0.032069 | ī |
| 4.5 | 0.18 | 0.24392 | -0.063922 | ī |
| 5 | 0.22 | 0.23604 | -0.016038 | ī |
| 5.5 | 0.18 | 0.22841 | -0.048409 | ī |
| 6 | 0.18 | 0.22103 | -0.041026 | ī |
| 6.5 | 0.18 | 0.21388 | -0.033882 | ī |
| 7 | 0.15 | 0.20697 | -0.056969 | ī |
| 7.5 | 0.15 | 0.20028 | -0.05028 | Ī |
| 8 | 0.15 | 0.19381 | -0.043807 | ī |
| 8.5 | 0.15 | 0.18754 | -0.037542 | ī |
| 9 | 0.15 | 0.18148 | -0.031481 | 1 |
| 9.5 | 0.15 | 0.17562 | -0.025615 | ī |
| 10 | 0.15 | 0.16994 | -0.019939 | 1 |
| 12 | 0.11 | 0.14901 | -0.039011 | ī |
| 14 | 0.18 | 0.13066 | 0.04934 | ī |
| 16 | 0.15 | 0.11457 | 0.035431 | ī |
| 18 | 0.15 | 0.10046 | 0.049541 | ī |
| 20 | 0.15 | 0.088088 | 0.061912 | ī |
| 22 | 0.15 | 0.07724 | 0.07276 | ī |
| 24 | 0.07 | 0.067727 | 0.0022727 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 26 | 0.15 | 0.059387 | 0.090613 | ī |
| 28 | 0.07 | 0.052073 | 0.017927 | ī |
| | | | | _ |

RESULTS FROM VISUAL CURVE MATCHING

VISUAL MATCH PARAMETER ESTIMATES

Estimate K = 3.3581E-005 y0 = 2.5904E-001

AQTESOLV

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- o pumping tests, injection tests, recovery tests, and slug tests

Features:

- o Interactive, menu-driven program design
- o Nonlinear least-squares estimation of aquifer coefficients
- o Statistical analysis of results
- o Complete graphical display of results

AQTESOLV RESULTS

12/04/90 14:17:41

PROBLEM DEFINITION

Problem title: SLUG TEST FOR MW1021B

Knowns and Constants:

ESTIMATION RESULTS

Analytical method: Bouwer and Rice (unconfined aquifer slug test)

PARAMETER ESTIMATES

Estimate Std. Error K = 3.7645E-005 +/- 2.6154E-006 y0 = 3.2040E-001 +/- 4.2986E-003

ANALYSIS OF MODEL RESIDUALS

residual = calculated - observed
weighted residual = residual * weight

Weighted Residual Statistics:

Model Residuals:

| Time | Observed | Calculated | Residual | Weight |
|--------|----------|------------|----------|--------|
| | | | | |
| 0.0033 | 0.37 | 0.32036 | 0.049643 | 1 |
| 0.0066 | 0.37 | 0.32031 | 0.04969 | 1 |
| 0.0099 | 0.37 | 0.32026 | 0.049737 | 1 |
| 0.0133 | 0.37 | 0.32021 | 0.049785 | 1 |
| 0.0166 | 0.37 | 0.32017 | 0.049832 | 1 |
| 0.02 | 0.37 | 0.32012 | 0.04988 | 1 |
| 0.0233 | 0.37 | 0.32007 | 0.049927 | 1 |
| 0.0266 | 0.37 | 0.32003 | 0.049974 | 1 |
| 0.03 | 0.34 | 0.31998 | 0.020022 | 1 |
| 0.0333 | 0.34 | 0.31993 | 0.020069 | 1 |
| 0.05 | 0.34 | 0.31969 | 0.020305 | 1 |
| 0.0666 | 0.34 | 0.31946 | 0.02054 | 1 |
| 0.0833 | 0.34 | 0.31922 | 0.020776 | 1 |
| 0.1 | 0.34 | 0.31899. | 0.021012 | 1 |

| 0 1166 | 0.04 | 0 21075 | 0 001047 | • |
|----------|------|----------|-------------|------------------------------------------------|
| 0.1166 | 0.34 | 0.31875 | 0.021247 | 1 |
| 0.1333 | 0.3 | 0.31852 | -0.018518 | 1 |
| 0.15 | 0.3 | 0.31828 | -0.018282 | 1 |
| 0.1666 | 0.3 | 0.31805 | -0.018048 | 1 |
| 0.1833 | 0.3 | 0.31781 | -0.017813 | <u> </u> |
| | | | -0.017578 | . |
| 0.2 | 0.3 | 0.31758 | | <u> </u> |
| 0.2166 | 0.3 | 0.31734 | -0.017345 | 1 |
| 0.2333 | 0.3 | 0.31711 | -0.01711 | 1 |
| 0.25 | 0.3 | 0.31688 | -0.016876 | 1 |
| 0.2666 | 0.26 | 0.31664 | -0.056643 | |
| | | | -0.016409 | † |
| 0.2833 | 0.3 | 0.31641 | | <u> </u> |
| 0.3 | 0.3 | 0.31617 | -0.016175 | 1 |
| 0.3166 | 0.3 | 0.31594 | -0.015942 | 1 |
| 0.3333 | 0.3 | 0.31571 | -0.015709 | 1 |
| 0.4167 | 0.3 | 0.31455 | -0.014545 | 1 |
| 0.5 | 0.3 | 0.31339 | -0.013387 | ī |
| | | | | ± |
| 0.5833 | 0.3 | 0.31223 | -0.012233 | <u> </u> |
| 0.6667 | 0.3 | 0.31108 | -0.011082 | 1 |
| 0.75 | 0.3 | 0.30994 | -0.0099363 | 1 |
| 0.8333 | 0.3 | 0.3088 | -0.0087951 | 1 |
| 0.9167 | 0.3 | 0.30766 | -0.0076567 | 1 |
| 1 | | 0.30652 | -0.0065239 | ī |
| | 0.3 | | | ± • |
| 1.0833 | 0.3 | 0.3054 | -0.0053952 | <u> </u> |
| 1.1667 | 0.3 | 0.30427 | -0.0042693 | 1 |
| 1.25 | 0.3 | 0.30315 | -0.003149 | 1 |
| 1.3333 | 0.3 | 0.30203 | -0.0020327 | 1 |
| 1.4166 | 0.3 | 0.30092 | -0.00092059 | ī |
| | 0.3 | 0.29981 | 0.00018878 | 7 |
| 1.5 | | | | <u>+</u> |
| 1.5833 | 0.3 | 0.29871 | 0.0012927 | <u> </u> |
| 1.6667 | 0.3 | 0.29761 | 0.0023939 | 1 |
| 1.75 | 0.3 | 0.29651 | 0.0034898 | 1 |
| 1.8333 | 0.3 | 0.29542 | 0.0045816 | 1 |
| 1.9167 | 0.3 | 0.29433 | 0.0056706 | Ī |
| 2 | 0.3 | 0.29325 | 0.0067544 | ī |
| | | | | * |
| 2.5 | 0.26 | 0.28682 | -0.026824 | <u>*</u> |
| 3 | 0.26 | 0.28054 | -0.020542 | 1 |
| 3.5 | 0.26 | 0.2744 | -0.014399 | 111111111111111111111111111111111111111 |
| 4 | 0.3 | 0.26839 | 0.03161 | 1 |
| 4.5 | 0.26 | 0.26251 | -0.0025122 | ī |
| 5 | 0.22 | 0.25676 | -0.036763 | ี วิ |
| | | | | • |
| 5.5 | 0.22 | 0.25114 | -0.03114 | <u> </u> |
| 6 | 0.18 | 0.24564 | -0.065641 | 1 |
| 6.5 | 0.18 | 0.24026 | -0.060261 | 1 |
| 7 | 0.18 | 0.235 | -0.055 | 1 |
| 7.5 | 0.18 | 0.22985 | -0.049853 | 1 |
| 8 | 0.18 | 0.22482 | -0.04482 | ī |
| | | | | † |
| 8.5 | 0.22 | 0.2199 | 0.00010358 | <u>+</u> |
| 9 | 0.22 | 0.21508 | 0.0049191 | 1 |
| 9.5 | 0.22 | 0.21037 | 0.0096293 | 1 |
| 10 | 0.18 | 0.20576 | -0.025764 | 1 |
| 12 | 0.18 | 0.18832 | -0.008323 | ī |
| 14 | 0.22 | 0.17236 | 0.04764 | ī |
| | | | | • |
| 16 | 0.18 | 0.15775 | 0.022249 | <u> </u> |
| 18 | 0.15 | 0.14438 | 0.0056202 | Ī |
| 20 | 0.15 | 0.13214 | 0.017858 | 1 |
| 22 | 0.11 | 0.12094 | -0.010941 | 1 |
| 24 | 0.15 | 0.11069 | 0.03931 | 1 |
| 26 | 0.15 | 0.10131 | 0.048692 | ī |
| 28 28 | 0.11 | 0.092721 | 0.017279 | 1 1 1 1 1 1 1 1 1 1 |
| | | | | ± 3 |
| 30 | 0.11 | 0.084862 | 0.025138 | 1 |
| 32 | 0.11 | 0.077669 | 0.032331 | 1 |
| | | | | |

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- o pumping tests, injection tests, recovery tests,

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- o Nonlinear least-squares estimation of aquifer coefficients
- o Statistical analysis of results
- o Complete graphical display of results

12/05/90

03:25:45

Problem title: SLUG TEST FOR MW1021C

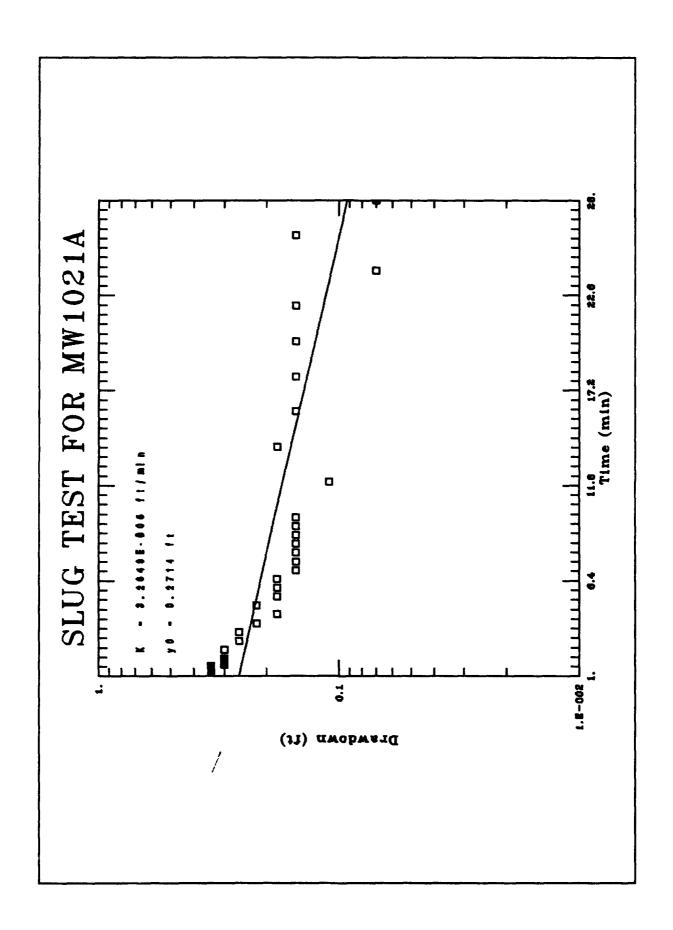
Knowns and Constants:

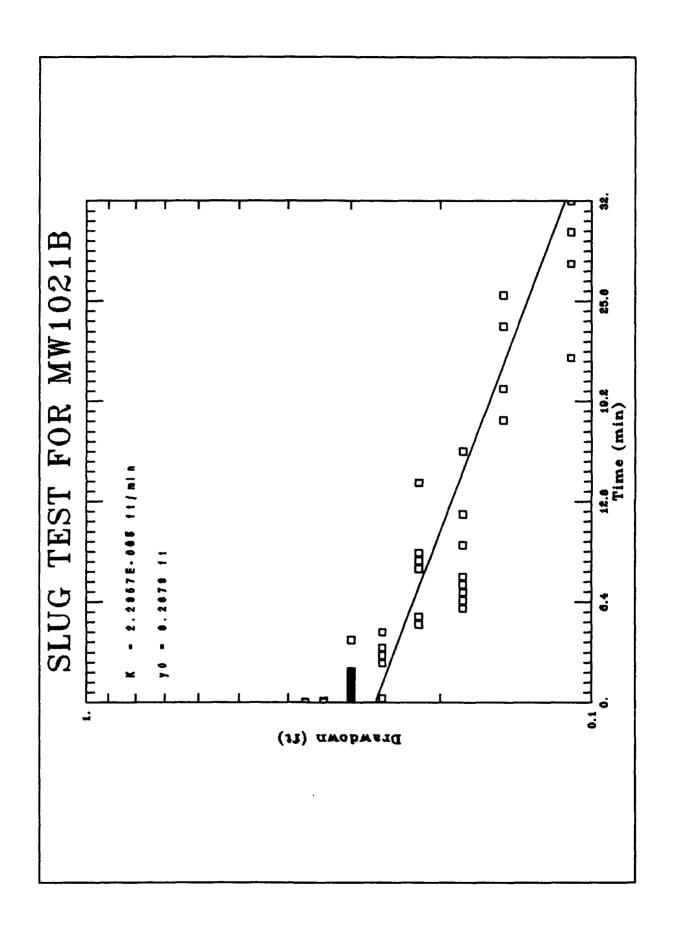
Bouwer and Rice (unconfined aquifer slug test)

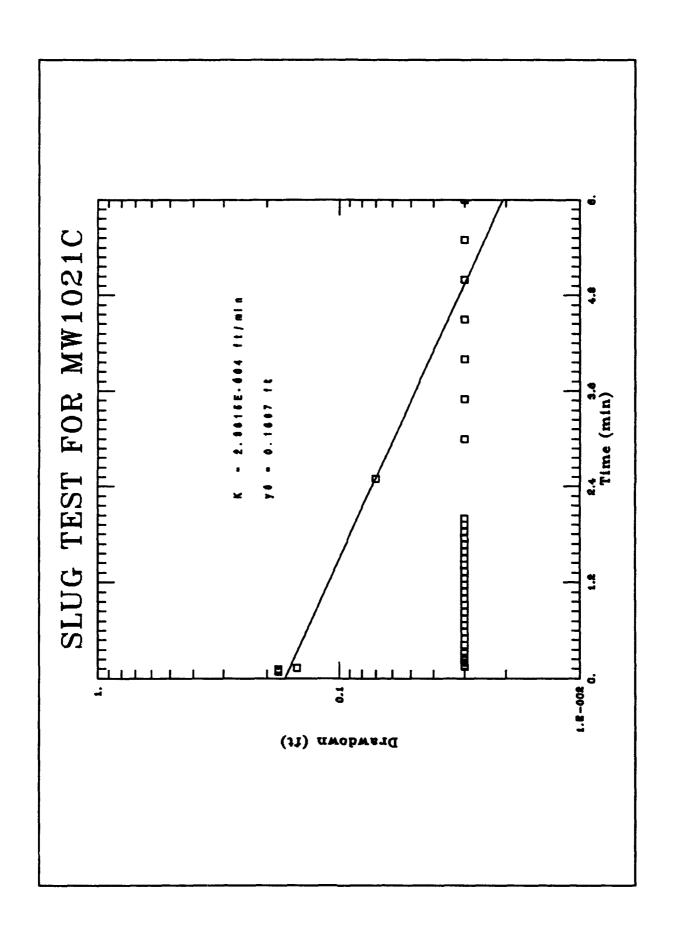
STATISTICAL MATCH PARAMETER ESTIMATES

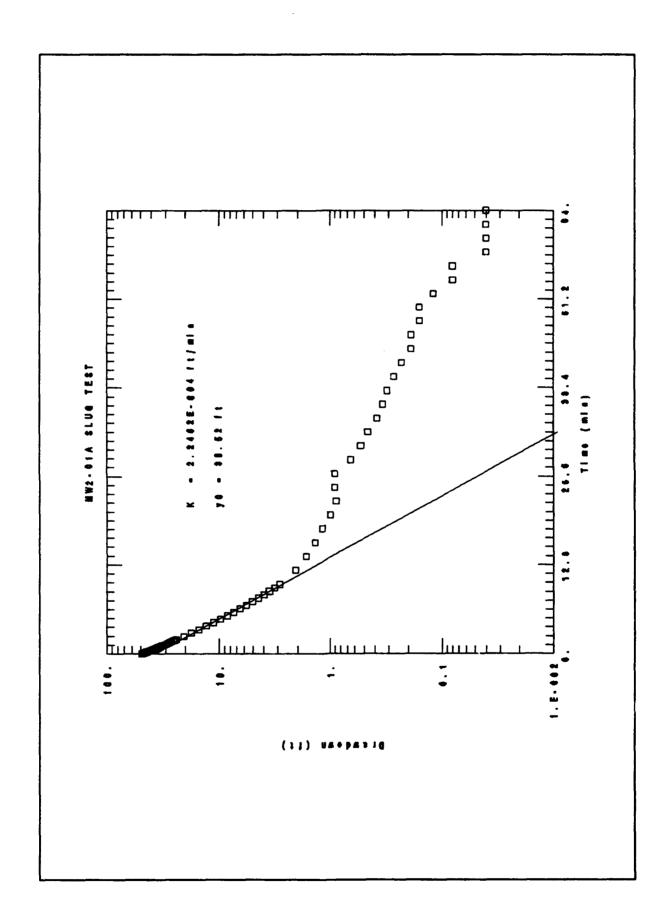
Estimate Std. Error

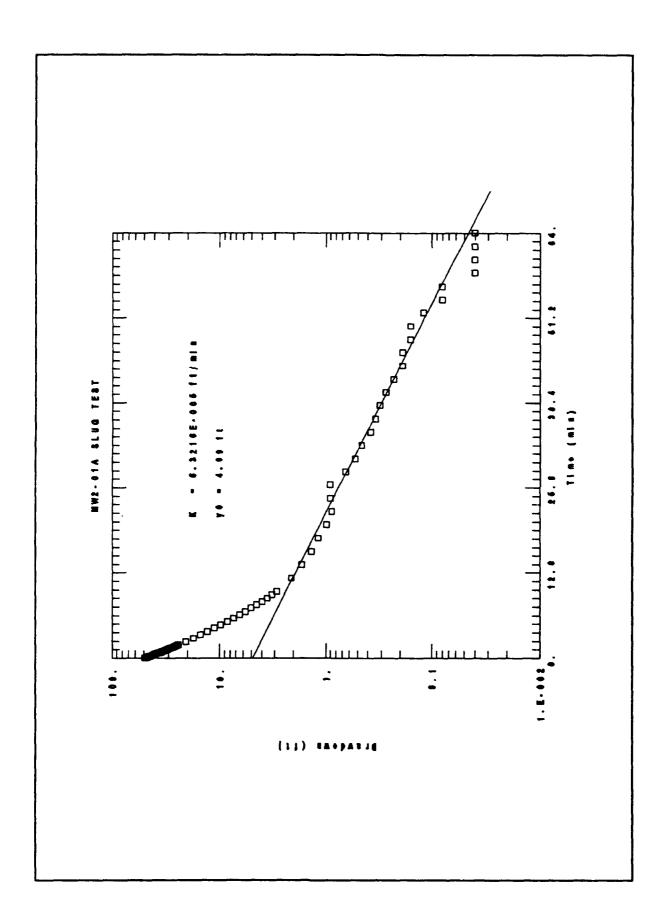
VISUAL MATCH PARAMETER ESTIMATES Estimate K = 2.9615E-004**y**0 = D-9

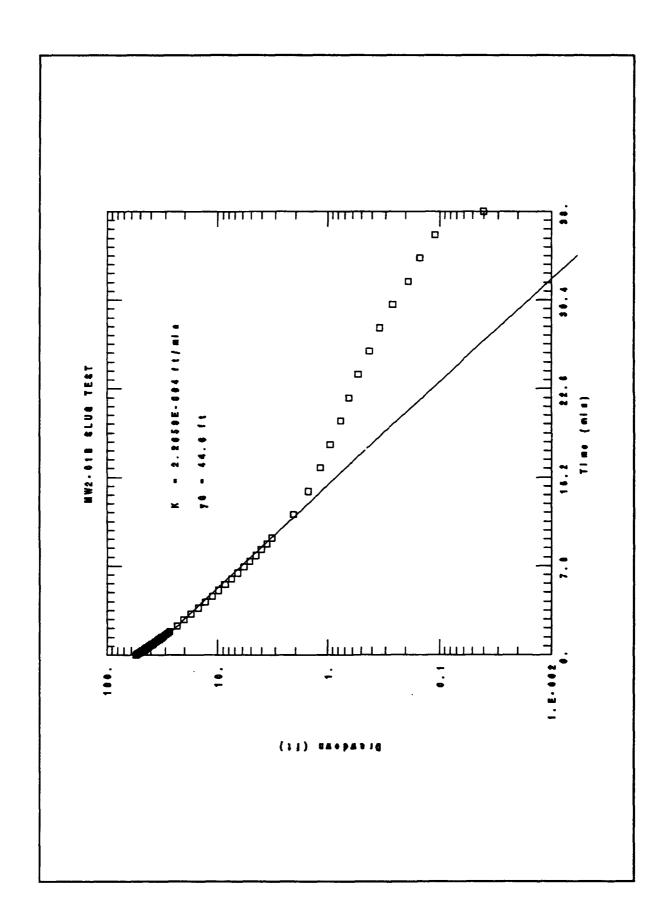


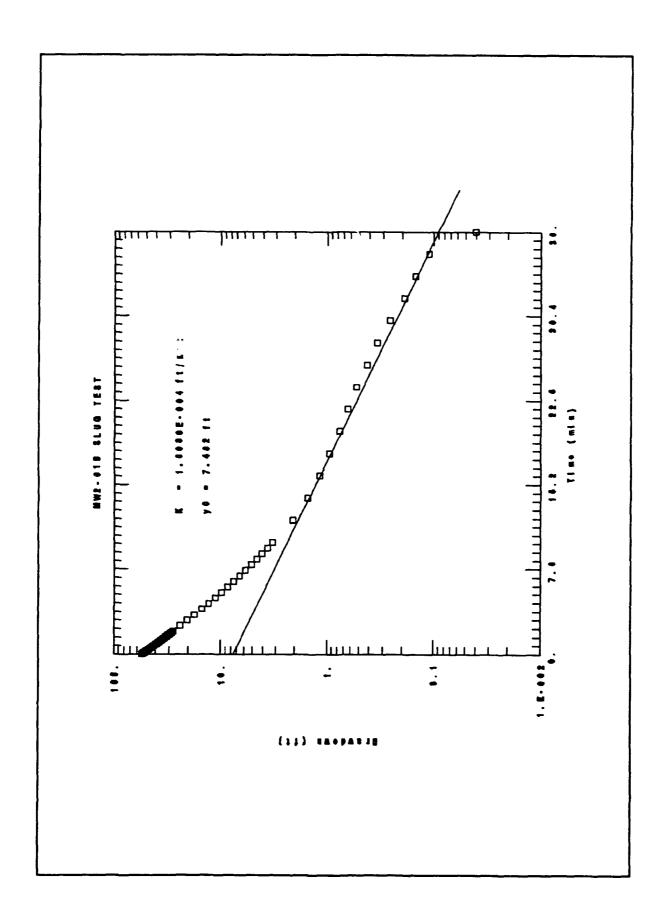


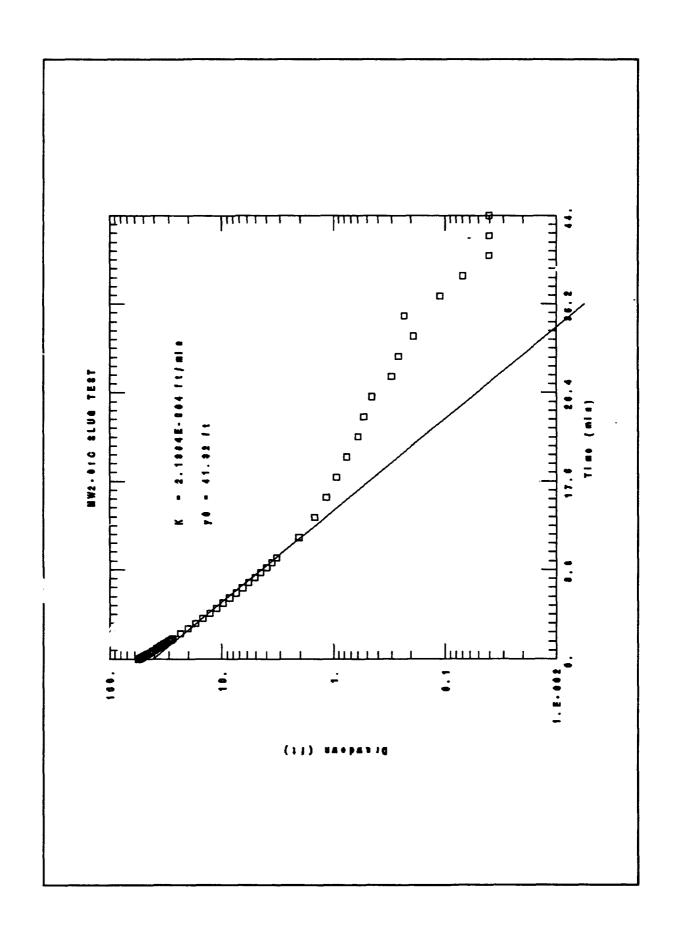


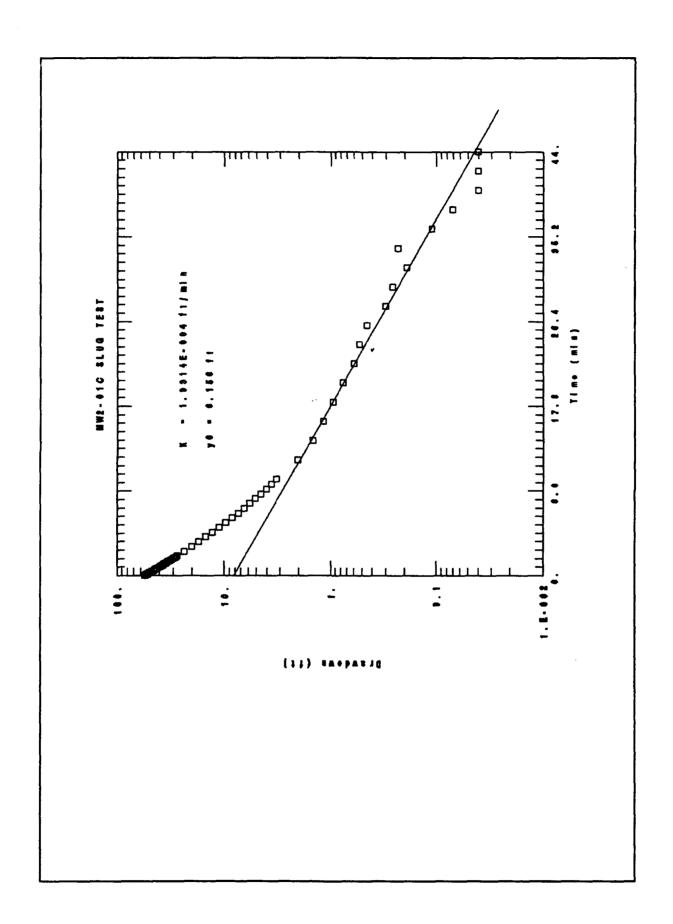


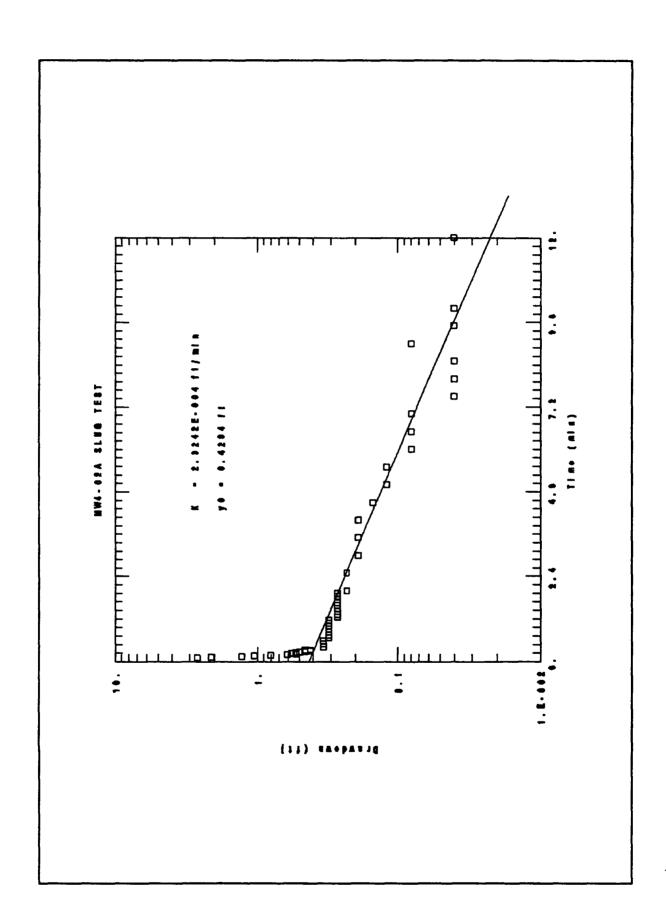


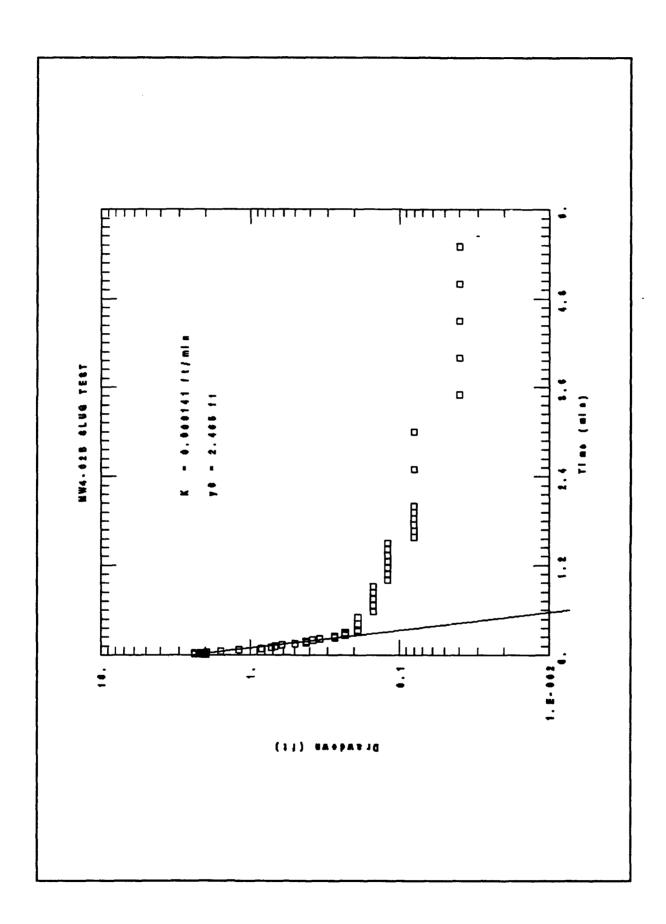


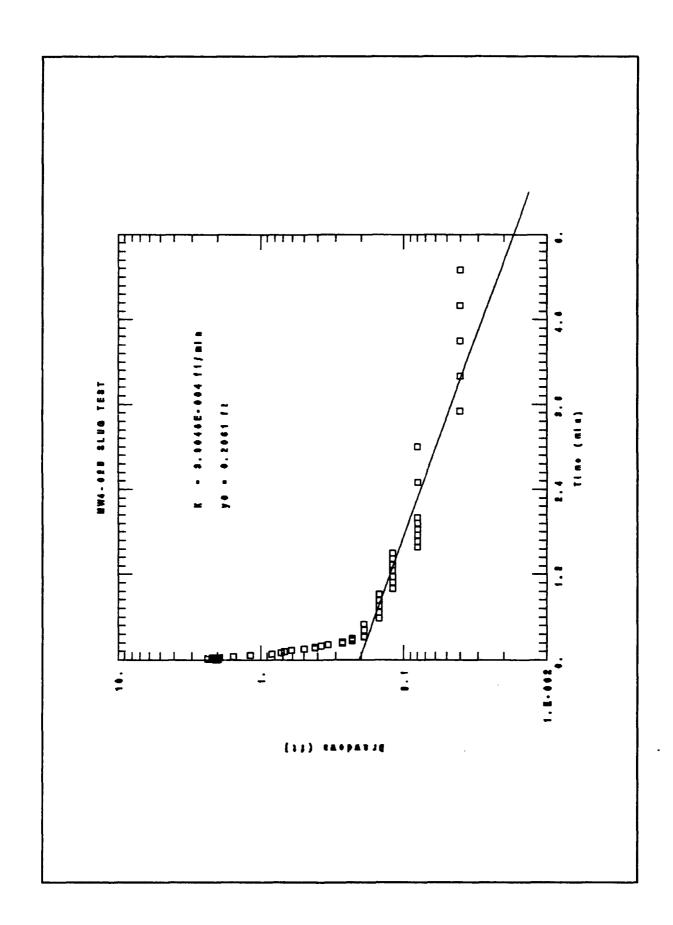












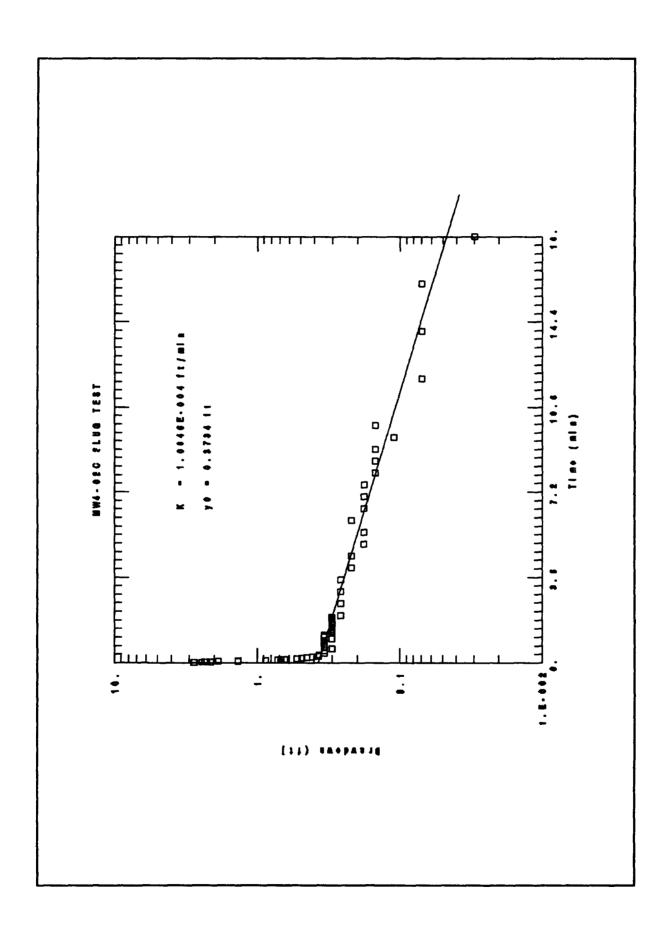


Table D-1. Water Level Measurements Indiana Air National Guard Base Fort Wayne, Indiana

| Well ID | Land Surface Elevation | Elevation Top of Casing | Water Elevation 1990 | Date Measured | Water Elevation 1991 | Date Measured | Change in Elevation 1991 - 1990 (feet) |
|---------|------------------------------|----------------------------|-------------------------|------------------|-------------------------|------------------|----------------------------------------------|
| MW1-01 | 804.37 | 807.28 | 766.30 | 9-10-90 | 765.61 | 11-5-91 | -0.69 |
| MW1-02 | 807.23 | 810.21 | 766.40 | 06-01-6 | 766.21 | 11-4-91 | -0.19 |
| MW2-01 | 801.17* | 800.72 | 757.92 | 9-10-90 | 758.36 | 11-5-91 | +0.44 |
| MW4-01 | 796.91* | 796.52 | 757.81 | 9-10-90 | 758.77 | 11-5-91 | +0.96 |
| MW4-02 | 790.68 | 793.27 | 756.65 | 9-10-90 | 756.90 | 11-6-91 | +0.25 |
| P-1 | 787.13* | 786.74 | 756.93 | 06-01-6 | 757.34 | 11-6-91 | +0.41 |
| P-2 | 795.92* | 795.42 | 756.70 | 9-10-90 | 756.67 | 11-7-91 | -0.03 |
| P-3 | 797.80* | 797.30 | 766.14 | 9-10-90 | 766.16 | 11-7-91 | +0.02 |
| P-4 | 791.79* | 791.40 | 762.31 | 9-10-90 | 762.16 | 11-3-91 | -0.15 |
| P-5 | 797.23* | 796.81 | 766.23 | 06-01-6 | 766.27 | 11-7-91 | +0.04 |
| P-6 | 803.26* | 802.86 | 766.22 | 06-01-6 | 766.08 | 11-7-91 | -0.14 |
| P-7 | 803.86* | 803.47 | Abandoned | oned | - | *** | |
| P-8 | 791.17* | 796.73 | 766.21 | 06-01-6 | 766.26 | 11-7-11 | +0.05 |
| P-9 | 795.78* | 795.37 | 766.24 | 9-10-90 | 767.57** | 11-7-91 | +1.33 |

NOTE: All measurements are in feet above mean sea level (MSL)

* Indicates monitoring well/piezometer is flush mount

** Cover broken, rainwater in flush mount cavity. Not used to determne groundwater flow direction.

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APPENDIX E
LABORATORY ANALYTICAL RESULTS
DATA PRESENTATION

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| WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) WATTER CAMPLES (1990) | SAIC Sample ID | Laboratory Sample ID | Current SAIC Sample ID | Former SAIC Sample ID | Laboratory Sample ID | Current SAIC Sample ID | Current Former Cui SAIC SAIC Laboratory SA. Sample Sample Sangle San ID ID ID ID | Laboratory Sample ID | Current SAIC Sample ID | Former SAIC Sample ID | Laboratory Sample ID | Current SAIC Sample ID |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------|---------------------------------|--------------------------------|----------------------------|---------------------------------|----------------------------------------------------------------------------------|----------------------------|---------------------------------|--------------------------------|----------------------------|---------------------------------|
| 10,000,000,000,000,000,000,000,000,000, | VATER S | AMPLES (19 | (0 | SOIL SAMPL | ES (1990) | | WATER SA | MPLES (199 | (I) | SOIL SAMPL | ES (1991) | |
| 10002314 EW-0. Sil-0-10 Sil-1-2 EB-1 1450 EB-1 1601-1-3 12030, 1200 | W-01 | 90021710 | EW-01 | SB1-01-11 | 90021702 | SB1-1-11 | EB1-1 | 14265, 14275 | EB1-1 | BG1-1-1 | 13278, 14202 | BG2-1 |
| 10,000,2014 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000,000 No. 00,000, | W-62 | 90021711 | EW-02 | SB1-01-12 | 90021701 | SB1-1-12 | EB1A-1 | 14266, 14276 | EB1A-1 | BG1-1-2 | 13279, 14203 | BG2-2 |
| 100022014 W. W. SIN -2-40 SOUTH SIN -2-30 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 SIN -2-40 | W-03 | 90021808 | EW-03 | SB1-02-03 | 90021801 | SB1-2-3 | EB2-1 | 14361 | EB2-1 | BG1-1-3 | 13280, 14204 | BG2-3 |
| WORKS EWA-6 SH 1-10-10 SH 1-1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-1 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 FH 1-2 Light, 1420 | \$ } * : | 90022314 | EW-04 | SB1-02-03R | 90021802 | SB1-2-3R | EB3-1 | 13179, 13187 | | BG11-4 | 13281, 14205 | BG2-4 |
| 1,000,000 EW - CO 1,000,000 EW - CO 1,000,000 EW - CO 1,000,000 EW - CO 1,000,000 EW - CO 1,000,000 EW - CO 1,000,000 EW - CO 1,000,000 EW - CO 1,000,000 EW - CO 1,000,000 EW - CO 1,000,000 EW - CO 1,000,000 EW - CO 1,000,000 EW - CO 1,000,000 EW - CO 1,000,000,000 EW - CO 1,000,000 0 EW - CO 1,000,000 0 EW - CO 1,000,000 EW - CO 1,000,000 EW - CO 1,000,000 EW - CO 1,000,00 | 2 € 4 € | 90022401 | EW 105 | SB1-(20-10 20: 00: 00: | 90021803 | 01-7-195 | E84-1 | 13194, 13203 | | 1-1-209 | 13282, 14200 | BG3-1 |
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| 00021708 Fig. 10 Control of Sin - 4.2 NAVI-10 14354 NAVI-1 Sin - 1.2 13100, 13190 00021708 Fib 0 Sin - 4.2 MAY-10 14354 NAVI-1 Sin - 1.2 13100, 13190 00021709 Fib 0 Sin - 4.2 MAY-10 14355 NAVI-1 Sin - 1.2 13100, 13190 00021709 Fib 0 Sin - 1.2 Sin - 4.2 MAY-10 14355 NAVI-1 Sin - 1.2 13100, 13190 0 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 MAY-10 14355 MAY-12 Sin - 0.1 1320, 1217 0 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 1320, 1217 1435 MAY-12 Sin - 0.1 1320, 1217 0 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 Sin - 0.1 Si | 9 8 1 1 | 50052103 | 00 L W 100 | SD1-03-16 | 90021/05 00023401 | 3D1-3-10 | 10411 | 13195, 13204 | F64-1 | 1-1-103 | 13166, 13197 | 251-3-1 CD1 C |
| 9002306 HT-01 SB1-04-0 9002346 SB1-4-5 NW1-2 I 4455 NW1-2 SB1-2-1 ISBN 1425 NW1-2 B-01 SB1-04-0 9002346 SB1-1-1 NW2-01 H435 NW1-1 SB1-2-1 ISBN 1425 NW1-1 SB2-01-01 90021846 SB1-1-1 NW2-01 H435 NW1-2 SB1-2-5 II286, H210 D 9002302 NW1-2 SB2-01-19 O002302 SB1-1-1 NW1-02 H439 NW1-2 SB1-2-5 II286, H210 D 9002302 NW1-2 SB2-01-19 O002302 NB1-2-1 IMM-02 H439 NW1-2 SB2-01-19 II385 H300 NW1-2 SB2-01-19 O002302 NB1-2-1 IMM-02 H439 NW1-2 SB2-01-19 II385 H300 NW1-2 SB2-01-19 O002302 NB1-2-1 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 II395 NW1-2 SB2-01-19 I | -0-1 | 90021708 | FR-01 | SB1 - 04 - 02 | 00053006 | | MWI-01 | 14354 | MW1-1 | SB1-1-2 | 13190, 13190 | SR1-5-3 |
| 9002500 FB-03 SB1-04-04 90022864 SB1-4-1 AWX2-0IR 14555 AWX1-1 SB1-2-2 1326, 14209 9002510 AWV1-1 SB2-01-02 9002186 SB3-1-2 AWX4-0IR 14557 AWX4-1R SB1-2-5 14557 HZ1 CB1-2-1 SB2-01-01 9002210 SB3-1-2 AWX4-0IR 14557 AWX4-1R SB1-2-5 14557 HZ1 CB1-2-1 SB2-01-01 9002201 SB3-1-1 AWX2-0IR 14557 AWX4-1R SB1-2-5 14557 HZ1 CB1-2-1 SB2-01-01 9002202 SB3-3-1 P-1 H395 P-1 SB1-2-5 14557 HZ1 CB1-2-1 SB2-01-01 9002202 SB3-3-1 P-1 H395 P-1 SB1-3-1 SB1-3-7 1326, 14257 AWX2-1 SB2-01-01 9002203 SB3-3-1 P-1 H395 P-1 SB1-3-1 SB1-3-1 SB2-01-01 9002203 SB3-3-1 P-1 H395 P-1 SB1-3-1 SB1-3-1 SB1-3-1 SB2-01-01 9002203 SB4-1-1 TB10-3-9 13180 TB10-31-9 SB1-3-1 H259, 1420 9002113 TB-03 SB4-01-02 9002203 SB4-1-2 TB11-1-9 13180 TB11-3-9 SB1-3-1 H259, 1420 9002113 TB-03 SB4-01-0 9002203 SB4-3-1 TB11-1-9 13180 TB11-3-9 SB1-3-3 H259, 1420 9002302 SB4-3-1 TB11-1-9 13180 TB11-3-9 SB1-3-3 H259, 1420 9002302 TB-06 SB4-01-0 9002203 SB4-3-1 TB11-1-9 13180 TB11-3-9 SB1-3-3 H259, 1420 9002302 TB-06 SB4-01-0 9002203 SB4-3-1 TB11-1-9 13180 TB11-3-9 SB1-3-3 H259, 1420 9002302 TB-06 SB4-01-0 9002203 SB4-3-1 TB11-1-9 13180 TB11-3-9 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, 1421 SB1-3-3 H259, | 8 | 90021709 | FB-02 | SB1-04-03 | 90023603 | | MW1-02 | 14267, 14277 | MW1-2 | SB1-1-7 | 13289, 14222 | SB1-5-7 |
| 9002510 H7-0 SEQ-01-01 9002186 SB3-1-1 MW4-0R 1437 MW4-1 SB1-2-2 1328, 14210 MW4-1 SEQ-01-02 90025186 SB3-1-1 MW4-0R 14357 MW4-1 SB1-2-3 1328, 14210 MW1-1 SEQ-01-03 9002510 MW1-2 SEQ-01-09 9002510 MW1-2 SEQ-01-09 9002510 MW4-2 SEQ-01-09 9002510 MW4-2 SEQ-01-09 9002500 MW4-1 SEQ-01-09 9002500 MW4-1 SEQ-01-09 9002200 SB3-2-1 P-8 14397 P-1 SB1-2-3 1328, 14212 SGQ-01-09 9002300 MW4-2 SEQ-0-01 9002200 SB3-2-1 P-8 14397 P-1 SGQ-0-01 9002200 SB3-2-1 P-8 14397 P-1 SGQ-0-01 SGQ-0-01 9002200 SB3-2-1 P-8 14397 P-1 SGQ-0-01 SGG-0-01 9002200 SB3-2-1 P-8 14397 P-1 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG-0-01 SGG- | 1-03 | 90023606 | FB-03 | SB1-04-04 | 90023604 | SB1-4-4 | MW2-01 | 14355 | MW3-1 | SB1-2-1 | 13285, 14209 | SB1-6-1 |
| 0.00021010 NWH-1 SR2-01-2 90021806 SR3-1-2-5 NWH-0 14357 NWH-2 SR3-2-5-5 14352 0.0002101 NWH-1 SR2-01-19 90021806 SR3-1-1-1 NWH-0 14359 NWH-2 SR3-2-5-7 14353 0.0002400 NWH-1 SR2-02-01 90022401 SR3-2-1 P-1 14399 P-8 SR3-3-1 14399 P-8 SR3-3-1 14399 P-8 SR3-3-1 14396 P-8 SR3-3-1 14396 P-8 SR3-3-1 14396 P-8 SR3-3-1 14396 P-8 SR3-3-1 14396 P-8 SR3-3-1 14396 P-8 SR3-3-1 14396 P-8 SR3-3-1 14396 P-8 SR3-3-1 14396 P-8 SR3-3-1 14396 P-8 SR3-3-1 14396 P-8 SR3-3-1 14396 P-8 SR3-3-1 14396 P-8 SR3-3-1 14396 P-8 P-8 P-8 P-8 P-8 P-8 P-8 P-8 P-8 P-8 P | L-01 | 90025106 | HT-01 | SB2-01-01 | 90021804 | SB3-1-1 | MW2-01R | 14356 | MW3-1R | SB1-2-2 | 13286, 14210 | |
| 0.00024002 NAW1-CZ 14358 MW44-2R 5181-2-5 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14352 14452 14452 14452 14452 14452 14452 14452 14452 14452 14452 14452 14452 14452 14452 14452 14452 14452 14452 14452 14452 14452 14452 | W1-01 | 90025102 | MW1-1 | SB2-01-02 | 90021805 | SB3-1-2 | MW4-01 | 14357 | MW4-1 | SB1-2-3 | 13287, 14211 | |
| 0002402 NW4-28 SB1-2-7 SB2-3-1 P-1 | W1-62 | 90025101 | MW1-2 | SB2-01-19 | 90021806 | SB3-1-19 | MW4-02 | 14358 | MW4-2 | SB1-2-5 | 14352 | SB1-6-5 |
| 9002401 P-2 SB2-00-01 9002230 SB3-1-1 P-1 1499 P-1 SB1-2-1 1285 1402 9002401 P-2 SB2-00-01 9002230 SB3-1-1 P-8 1499 P-8 SB1-3-1 1455 1402 9002401 P-2 SB2-00-01 9002230 SB4-1-1 P-8 1499 P-8 SB1-3-1 1455 1402 9002401 P-2 SB2-00-01 9002230 SB4-1-2 TB10-3-9 13113 TB10-3-9 SB1-3-3 1465 1470 90021713 TB-0 SB4-00-0 9002230 SB4-2-1 TB10-3-9 13190 TB11-1-9 SB1-3-3 1465 1470 90021713 TB-0 SB4-00-1 9002230 SB4-2-1 TB11-3-9 13190 TB11-1-9 SB1-3-3 1465 1470 90021713 TB-0 SB4-00-1 9002230 SB4-3-2 TB11-3-9 1450 TB11-3-9 SB1-3-3 1465 1470 900230 TB-0 9002310 SB4-3-2 TB11-3-9 1450 TB11-3-9 SB1-1-5 1450 1421 900230 TB-0 9002310 SB4-4-1 TB11-6-9 14599 TB11-7-9 1814-1-5 1350 1421 900230 TB-0 900230 TB-0 9002313 SB4-3-2 TB11-3-9 1450 TB11-7-9 14599 TB11-7-9 1814-1-5 1350 1421 900230 TB-0 900230 TB-0 9002313 SB4-3-2 TB11-3-9 1450 TB11-7-9 14599 TB11-7-9 14599 TB11-7-9 14599 TB11-7-9 14599 TB11-7-9 14599 TB11-7-9 14599 TB11-7-9 14599 TB11-7-9 14599 TB11-7-9 14599 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 1459 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7-9 TB11-7 | M2-01 | 90024902 | MW3-1 | SB2-02-01 | 90022301 | SB3-2-1 | MW4-CR | 14359 | MW4-2R | SB1-2-5R | 14353 | SB1-6-5R |
| 9002315 TB-05 SB4-01-00 9002230 SB4-1-2 TB10-30-91 13103 TB10-30-91 SB1-3-2 14554, 14271 9002310 SB4-01-02 9002230 SB4-1-2 TB10-30-91 13105 TB10-30-91 SB1-3-2 14554, 14271 9002311 TB-05 SB4-01-02 9002230 SB4-2-1 TB11-3-91 1350 TB11-3-91 SB1-3-1 13504, 14213 9002313 TB-05 SB4-03-01 9002300 SB4-2-2 TB11-3-91 13507 TB11-3-91 SB1-4-1 13504, 14213 9002313 TB-05 SB4-03-01 9002300 SB4-3-1 TB11-3-91 13504 TB11-3-91 SB1-4-1 13504, 14213 9002313 TB-05 SB4-03-01 9002300 SB4-3-1 TB11-3-91 13504 TB11-3-91 SB1-4-1 13504, 14213 9002313 TB-05 SB4-04-01 9002313 SB4-4-1 TB1P BLK. 14266 TB11-3-91 SB1-4-1 13504, 14213 9002300 TB-05 SB4-05-01 9002312 SB4-4-1 TB1P BLK. 14266 TB11-3-91 SB1-4-1 13504, 14213 9002300 TB-05 SB4-05-01 9002312 SB4-5-1 SB4-1-1 SB4-4-2 13504, 14213 9002300 TB-10 SB4-05-01 9002312 SB4-5-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4-1-1 SB4- | ₩4-Œ | 90023901 | MW4-2 | SB2-03-01 | 20027302 | SB3-3-1 | - ° | 14397 | a. a | SB1-2-7 | 13288, 14212 | SB1-6-7 |
| 90021712 TB-01 SB4-01-02 90022305 SB4-1-2 TB10-31-91 13160 TB10-31-91 SB1-3-3 1426/14272 90021714 TB-03 SB4-2-0 90022305 SB4-2-1 TB11-1-91 13160 TB11-1-91 SB1-4-1-1 1326/14272 90021714 TB-03 SB4-0-0 90022305 SB4-3-1 TB11-6-91 1316 TB11-1-91 SB1-4-1-1 1326/14272 90021714 TB-03 SB4-0-0 90022305 SB4-3-1 TB11-6-91 1316 TB11-6-91 SB1-4-1-1 1326/14272 90022315 TB-05 SB4-0-0 90022305 SB4-3-1 TB11-6-91 14399 TB11-6-91 SB1-4-1-3 1326/1421 90022315 TB-05 SB4-0-0 90022305 SB4-4-1 TB11-6-91 14399 TB11-7-91 SB1-4-1-3 1326/1421 90023902 TB-06 SB4-0-0 90022315 SB4-4-2 TB11-7-91 14399 TB11-7-91 SB1-4-1-SR 14349 90023902 TB-06 SB4-0-0 90022315 SB4-5-1 SB1-4-2 SB1-4-1-SR 14349 90023902 TB-0 SB4-0-0 9002315 SB4-5-1 SB1-4-1-SR 1326/1421 90024904 TB-11 SB-B-0 9002170 BD1-1 9002490 TB-11 SB-B-0 9002170 BD1-1 9002490 TB-11 SB-B-0 9002170 BD1-1 9002240 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1-4-1 SB1- | 4 eç | 90025105 | 7 °C | SB4 01 01 | 90022304 | SR4-1-1 | TB10-30-91 | 13113 | TB10-30-91 | | 14260 14270 | SR1-7-2 |
| 900234T3 TB-02 SB4-02-01 9002230 SB-2-1 TBIL-1-91 1310 TBIL-3-91 SBL-1-1 1250, 14213 90021714 TB-03 SB4-02-02 90022307 SB4-2-2 TBIL-3-91 14362 TBIL-3-91 SBL-1-1 1250, 14213 900234T3 TB-04 SB4-03-01 90022305 SB4-3-2 TBIL-3-91 14369 TBIL-3-91 SBL-1-1 1250, 14214 900224T3 TB-05 SB4-04-02 90022313 SB4-3-2 TBIL-3-91 14369 TBIL-3-91 SBL-1-1 1250, 14214 900224T3 TB-05 SB4-04-02 90022313 SB4-3-2 TBIL-3-91 14369 TBIL-3-91 SBL-1-1-3 1320, 14215 900234T3 TB-07 SB4-04-02 90022313 SB4-3-2 TBIL-3-91 TB-07 SBL-3-1 SBL-1-1-1 1320, 14215 900234T3 TB-07 SB4-05-02 90022313 SB4-3-2 TB-06 SB4-05-02 90022313 SB4-3-2 TB-10 SB-04-1 SBL-3-1 SBL-3-1 1320, 14216 9002403 TB-10 SB-04-02 9002212 SBL-3-2 SBL-3-1 1250, 14216 9002403 TB-10 SB-04-02 90022403 SB4-3-2 SBL-3-1 1250, 14216 9002403 TB-10 SB-04-02 90022403 SB4-3-1 1250, 14216 SBL-3-1 1250, 14216 9002403 TB-10 90022403 SB4-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 1250, 14216 SBL-3-1 | -0 | 90021712 | TB-01 | SB4-01-02 | 90022305 | SB4-1-2 | TB10-31-91 | _ | TB10-31-91 | | 14261, 14271 | SB1-7-3 |
| 90021017 TB-03 S84-02-02 90022307 S84-2-2 TB11-3-91 13301 TB11-3-91 SB1A-1-1 1320, 14213 9002101 TB-04 S84-03-01 90022308 S84-3-1 TB11-5-91 14392 TB11-5-91 SB1A-1-2 1220, 14214 90022403 TB-06 90022403 S84-04-01 90022308 S84-3-1 TB11-7-91 14392 TB11-7-91 SB1A-1-3 1220, 14214 90023402 TB-06 S84-04-02 90023313 S84-5-2 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 90023402 TB-06 S84-6-1 90023413 S84-5-2 S84-5-2 S81A-1-RI S8-8-03 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 S84-6-1 | 29-1 | 90021713 | TB-02 | SB4-02-01 | 90022306 | SB4-2-1 | TB11-1-91 | _ | TB11-1-91 | | 14262, 14272 | SB1-7-3R |
| 90022315 TB-05 SB4-03-0 90022308 SB4-3-1 TBI1-5-91 14399 TBI1-7-91 SBIA-1-3 1320, 14216 90022315 TB-05 SB4-04-0 90022315 SB4-4-2 TRIP BLK, 14268 TRIP BLK, SBIA-1-3 1320, 14216 90022315 TB-05 SB4-04-0 90022315 SB4-4-2 TRIP BLK, 14268 TRIP BLK, SBIA-1-5 1320, 14216 90022302 TB-06 SB4-06-01 90022313 SB4-5-1 SBIA-1-5 1320, 14216 90022902 TB-06 SB4-06-02 90022313 SB4-5-1 SBIA-1-5 1320, 14216 90022902 TB-06 SB4-06-02 90022313 SB4-5-1 SBIA-1-5 1320, 14216 90024902 TB-06 SB4-06-02 90022313 SB4-5-1 SBIA-1-5 1320, 14216 90024902 TB-11 SB-B-02 9002210 BG1-1 SB-B-02 9002170 BG1-1 SB-B-02 9002170 BG1-1 SB-B-02 9002170 BG1-1 SB-B-02 9002404 TB-11 SB-B-02 9002402 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 SB4-06-03 | -03 | 90021714 | TB-03 | SB4-02-02 | 90022307 | SB4-2-2 | TB11-3-91 | 13301 | TB11-3-91 | | 13290, 14213 | SB1-8-1 |
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| 900236TB TF-07 SB4-04-02 9002311 SB4-4-2 SB1A-1-5R1 14349 9002302 TB-06 SB4-65-01 9002312 SB4-5-1 SB1A-2-2 13294, 14219 9002403 TB-10 SB-B-01 90021707 BG1-2 SB1A-2-1 13294, 14219 9002403 TB-11 SB-B-02 90021707 BG1-2 SB1A-2-1 13294, 14219 9002403 TB-11 SB-B-02 90021707 BG1-2 SB1A-2-1 13294, 14219 90025107 TB-12 SD4-02 90021707 BG1-2 SB1A-3-2 13296, 14219 SB1A-3-1 13294, 14221 SB1A-3-1 13294, 14221 SB1A-3-1 13294, 14221 SB1A-3-1 13294, 14221 SB1A-3-1 13294, 14221 SB1A-3-2 13296, 14221 SB1A-3-2 13296, 14221 SB1A-3-2 13296, 14221 SB1A-3-2 13296, 14221 SB1A-3-2 13296, 14221 SB1A-3-2 13194, 13182 SB3-1-0 13174, 13182 SB3-1-0 13174, 13182 SB3-1-0 13174, 13182 SB3-1-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 | 2 <u>2</u> | 90024TR | 1 B - 03 | SB4-04-01 | 90022310 | SB4-4-1 | TRIPRIK | 14268 | TRIPRIK | SB1A-1-5 | 13292, 14215 | |
| 90023902 TB-08 SB4-05-01 90022312 SB4-5-1 SB1A-1-5R2 14349 90024902 TB-09 SB4-05-02 90022313 SB4-5-2 SB1A-2-1 13294, 14217 90024902 TB-10 SB-B-01 900221706 BG1-2 SB1A-2-1 13294, 14217 90024004 TB-11 SB-B-02 90022402 SD4-1 SB1A-2-1 13294, 14217 90024004 TB-11 SB-B-02 90022403 SD4-2 SB1A-3-1 13294, 14217 90024004 TB-11 SB-B-02 90022403 SD4-1 13294, 14217 SB1A-3-1 13294, 14217 SB1A-3-1 13294, 14217 SB1A-3-1 13294, 14217 SB1A-3-1 13294, 14217 SB1A-3-1 13294, 14217 SB1A-3-1 13294, 14217 SB1A-3-1 13104, 13118 SB3-1-0 13174, 13187 SB3-1-0 13174, 13187 SB4-1-1 13110, 13118 SB4-1-1 13110, 13118 SB4-1-1 13117, 13187 SB4-1-1 13117, 13187 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 SB4-3-1 13194, 13200 | 26- | 900236TB | TB-07 | SB4-04-02 | 9002311 | SB4-4-2 | | | | SB1A-1-5R1 | 14348 | SR1-8 |
| 90024902 TB-09 SB4-05-02 90022313 SB4-5-2 SB1A-2-1 13294, 14217 90024903 TB-10 SB-B-01 90021706 BG1-1 SB1A-2-2 13295, 14218 90024003 TB-10 SB-B-01 90021706 BG1-1 SB1A-2-2 13295, 14218 SB1A-2-2 13295, 14218 SB1A-2-2 13295, 14218 SB1A-3-4 13295, 14218 SB1A-3-2 13295, 14218 SB1A-3-4 13295, 14218 SB1A-3-4 13295, 14218 SB1A-3-4 13295, 14218 SB1A-3-4 13395, 14218 SB1A-3-4 13395, 14218 SB1A-3-4 13395, 14218 SB1A-3-4 13395, 13118 SB1A-3-1 13119, 13118 SB1A-3-1 13119, 13118 SB1A-1-2 13111, 13118 SB1A-1-2 13111, 13118 SB1A-1-2 13111, 13118 SB1A-1-2 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111, 13118 SB1A-3-1 13111 | 8 | 90023902 | TB-08 | SB4-05-01 | 90022312 | SB4-5-1 | | | | SB1A-1-5R2 | | |
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| 9002404 TB-11 SB-B-02 90021707 B01-2 SB1A-2-3 12296,14219 90025107 TB-12 SD4-01 90022403 SD4-2 SB1A-3-1 12929,14221 SD4-02 90022403 SD4-2 SB1A-3-3 12296,14221 SB1A-3-4 14350 SB1A-3-4 14350 SB1A-3-4 14350 SB1A-3-4 14350 SB1A-3-4 14350 SB1A-3-1 13199,13114 SB3-1-1 13199,13114 SB3-1-2 13175,13183 SB3-1-2 13175,13183 SB3-2-2 13175,13183 SB4-1-2 13174,13186 SB4-2-2 13175,13183 SB4-3-2 13175,13183 SB4-3-2 13175,13183 SB4-3-2 13175,13183 SB4-3-2 13177,13183 SB4-3-2 13175,13183 SB4-3-2 13175,13183 SB4-3-2 13175,13184 SB4-3-2 13175,13183 | -10 | 90024903 | TB-10 | SB-B-01 | 90021706 | BG1-1 | | | | SB1A-2-2 | 13295, 14218 | |
| 90023107 TB-12 SD4-01 90022403 SD4-1 SD4-1 SD4-1 13297, 14220 SD4-02 90022403 SD4-2 SB1A-3-1 13297, 14220 SB1A-3-4 14350 SB1A-3-4 14350 SB1A-3-4 14350 SB1A-3-4 14350 SB1A-3-6 14351 SB1A-3-1 13109, 13114 SB3-1-9 13176, 13185 SB3-1-9 13176, 13185 SB3-2-1 13110, 13116 SB4-1-1 13110, 13116 SB4-1-1 13110, 13116 SB4-2-1 13177, 13185 SB4-3-2 13197, 13200 SB4-3-2 13197, 13200 SB4-3-2 13197, 13200 SB4-3-2 13199, 13200 SB4-3-2 13199, 13200 | = : | 90024904 | E-11 | SB-B-02 | 90021707 | BG1-2 | | | | SB1A-2-3 | 13296, 14219 | |
| SBIA-3-2 1428, 14213 SBIA-3-3 1328, 14213 SBIA-3-4 14350 SBIA-3-4R 14351 SBIA-3-4R 14351 SBIA-3-6 1315, 1318 SB3-1-1 13109, 13114 SB3-1-9 13176, 1318 SB3-2-1 13176, 1318 SB3-2-2 13174, 1318 SB4-1-1 13110, 13115 SB4-1-1 13110, 13115 SB4-1-2 13177, 1318 SB4-2-2 13177, 1318 SB4-3-2 13177, 1318 SB4-3-2 13177, 1318 SB4-3-2 13177, 1318 SB4-3-2 13177, 1318 SB4-3-2 13177, 1318 SB4-3-2 13177, 1318 SB4-3-2 13177, 1318 SB4-3-2 13177, 1318 SB4-3-2 13177, 1318 SB4-3-2 13177, 1318 SB4-3-2 13177, 1318 SB4-3-2 13177, 1318 | 71-17 | 90025107 | | SD4-01 | 90022402 | SD4-1 | | | | SB1A-3-1 | 13297, 14220 | |
| 2-5 1226, 14221 3-4 14351 3-5 14264, 14274 -1 13109, 13114 -6 13175, 13183 -9 13174, 13182 -1 13110, 13116 -2 13174, 13182 -2 13111, 13116 -6 13112, 13117 -1 13177, 13185 -2 13191, 13200 -1 13191, 13200 -1 13191, 13200 -1 13191, 13200 -1 13191, 13200 -1 13191, 13200 -1 13191, 13200 -1 13191, 13200 -1 13191, 13200 -1 13191, 13200 | | | | SD4-02 | 90022403 | 204-2 | | | | SB1A-3-2 | 14263, 14273 | SB1-10-2 |
| 3-4 14251 3-5 14264, 14274 -1 13109, 13114 -6 13175, 13183 -9 13176, 13184 -1 13174, 13181 -2 13174, 13181 -2 13174, 13181 -1 13110, 13115 -1 13110, 13115 -1 13117, 13185 -1 13191, 13200 -1 13191, 13200 -1 13191, 13200 -1 13191, 13200 -1 13192, 13201 -1 13193, 13200 -1 13192, 13201 | | | | | | | | | | SD1A-3-5 | 132%, 14221 | 201-102 |
| 3-5 14264 14274 -1 13109, 13114 -6 13175, 13183 -1 13174, 13182 -1 13174, 13182 -2 13171, 13186 -6 13112, 13117 -1 13177, 13185 -2 13178, 13200 -1 13192, 13200 -4 13192, 13200 -4 13192, 13200 -4 13193, 13200 -4 13193, 13200 | | | | | | | | | | SR1A-3-4R | 14351 | SB1-10-4B |
| -1 13109, 13114 -6 13175, 13183 -1 13174, 13182 -1 13174, 13182 -2 13173, 13181 -2 13111, 13116 -1 13177, 13185 -1 13191, 13200 -1 13192, 13201 -4 13193, 13202 -4 13192, 13201 | | | | | | | | | | SB1A-3-5 | 14264, 14274 | SB1-10-5 |
| -6 13175, 13183 -9 13176, 13184 -1 13177, 13181 -1 13110, 13115 -2 13173, 13181 -6 13112, 13117 -1 13191, 13200 -2 13192, 13201 -4 13193, 13202 -4 13193, 13202 | | | | | | | | | | SB3-1-1 | 13109, 13114 | SB3-5-1 |
| -9 13176, 13184 -1 13174, 13182 -2 13173, 13181 -2 13111, 13116 -6 13112, 13117 -1 13177, 13185 -1 13177, 13185 -1 13191, 13200 -2 13192, 13201 -4 13193, 13202 -4 13193, 13202 | | | | | | | | | | SB3-1-6 | 13175, 13183 | SB3-5-6 |
| -1 13174, 13182 -2 13173, 13181 -1 13110, 13115 -6 13112, 13116 -1 1312, 13177, 13185 -1 13191, 13200 -2 13192, 13201 -4 13193, 13202 -4 13193, 13202 | | | | | | | | | | SB3-1-9 | 13176, 13184 | SB35-9 |
| -2 13173, 13181 -1 13110, 13115 -2 13111, 13116 -1 1312, 13177, 13185 -1 13191, 13200 -2 13192, 13201 -4 13193, 13202 -4 13193, 13202 | | | | | | | | | | SB3-2-1 | 13174, 13182 | SB3-6-1 |
| -1 13110, 13115 -2 13111, 13116 -6 13112, 13177 -1 13177, 13185 -1 13191, 13200 -2 13192, 13201 -4 13193, 13202 14395 | | | | | | | | | | SB3-2-2 | 13173, 13181 | |
| -2 1311, 1316 -6 1317, 13187 -1 1317, 13186 -1 1319, 13200 -2 1392, 13201 -4 13193, 13202 -4 13193, 13202 | | | | | | | | | | SB4-1-1 | 13110, 13115 | |
| -6 13112, 13177 -1 13177, 13185 -1 13191, 13200 -2 13192, 13201 -4 13193, 13202 -14395 | | | | | | | | | | SB4-1-2 | 13111, 13116 | |
| -1 13177, 13185 -2 13178, 13186 -1 13191, 13200 -2 13192, 13201 -4 13193, 13202 14395 | | | | | | | | | | SB41-6 | 13112, 13117 | SB46-6 |
| -4 13178, 13180 -1 13191, 13200 -2 13192, 13201 -4 13193, 13202 14395 | | | | | | | | | | SB4-2-1 | 13177, 13185 | SB4-7 |
| -2 13192, 13201 -4 13193, 13202 14395 | | | | | | | | | | 7-7-195 | 13101 13160 | |
| -4 13193, 13202 14395 | | | | | | | | | | SB4-3-2 | 13192, 13201 | |
| 14395 | | | | | | | | | | SB4-3-4 | 13193, 13202 | SB4-8-4 |
| | | | | | | | | | | SED-1 | 14395 | SD4-3 |

Table B-2. Data Prosentation: Background Soil Samples (1999)
122nd Tactical Fighter Wing, Indiana Air National Guard, Ft. Wayne, Indiana

| | | ı |
|--------------|------------|---|
| | Continued) | |
| a (1996) | Indiana (| |
| Agents in | L. Wayne, | |
| ground Sc | Guard, F | |
| on: Back | National | |
| a Presentati | fisse Air | |
| 7 0 | Viol In | |
| Table B- | 1 Pighter | |
| _ | ctica | |

| SAIC ID Number | 83 | B-01 | 28-B-02 | SB-B-62KE | |
|----------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------|------------------------|------------------|--|
| Laboratory Sample Number Associated Field OC Samples | 8 T | 90021706 FB0102 | 90021707 FR -61 -02 | 90021707RE | |
| | 1 | 13-61 20-81 | | | |
| SEMIVOLATILE ORGANIC COMPOUNDS | OUNDS | 70-10 | | EW -01, -04, -04 | |
| Phenol | F | 380 | | ¥ | |
| bia(2—Coloroethyl)ether 2—Chlorophand | 1 | ⊃ : 2 | \$ | Ž 2 | |
| 1,3-Diction openzene | [] | 2 2 | | ≨ ≵ | |
| 1,4-Dichlarobenzene | \$ | 360 | | ≨: | |
| Benayi Alconoi 1.2 – Dichlorobenzene | 3 | | 8 8 | ≨ 3 | |
| 2-Methylphenol | 1 | 368 | \$ | ≨ | |
| bie(2—Chloroisopropyl)ether 1—Mariadopeno | \$ | 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 8 | ≨: | |
| N-Nkroso-di-N-propylamine | 1 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 2 2 | ≨ ≵ | |
| ě | \$ | 360 | 200 | ≨: | |
| Vitrobenzene Jeografia | \$ | ⊃ : 9 : | \$ { | Ź | |
| 2-Nitrophenol | 1 | | ⊋ Ş | €≱ | |
| 24-Dimethylphenol | 3 | 380 | D 00+ | ≨ | |
| | 16. | D 200 | 2000 | ≨: | |
| on (z – Cara contrary) mennane 2.4 – Diebioros henoi | | | 2 5 5 | \$ \$ | |
| 1,2,4-Tricthorobenzene | Š | 200 | 0.00 | ≨ | |
| Naphthalene | 164 | 98 | D 00 | ž | |
| A - Cast constitue Herechlorolist adiena | 1 | | 8 \$ | ≨≨ | |
| 4-Chloro-3-methylphenol | 1 | 2 2 2 | \$ | ≨ | |
| 2-Methylnapht balene | 3 | 360 | D 007 | Ź | |
| Hemchiorocyclopentaliene 2 4 4 - Thichtomband | 2 | | \$ { | \$ | |
| 145-Trichlarophenol | | 200 | 2000 | € ₹ | |
| 2-Chloronaphthalene | 15 | 380 | D 00₽ | ź | |
| 2-Nitrospiline Dimethy Pithales | 3 | | 2000 | \$ \$ | |
| Acenaphibelene | | | 3 4 | X X | |
| ,6-Dinitratoluene | 1 | 360 | 1 00 1 00 1 00 | ź | |
| - Nitrosniline | ş | 1800 U | 2000 U | ¥: | |
| A_Distraction | J. | | 2 5 | ≨ \$ | |
| 1-Nitrophenol | | 200 | 1000Z | € ≵ | |
| Dibenzofuran | 1 | 300 | 100 4 | ź | |
| 24-Dinkratoluene | 16 | 2 8 | 100 1 | ž | |
| Action Finance I-Chloropheral - phenal Ether | | | 3 \$ | \$ \$ | |
| Pluarene | 1 | 200 | 9 | ≨ | |
| I-Nitroaniline | 16/4 | ⊃: 0081 | D 0000 | ž | |
| to-Lypero-L-metaypenol | 2. 2. | | 2002 | \$ | |
| 1-Bromopheryl phenyl Ether | | | 3 5 | £ £ | |
| Herachlarobenzene | \$ | 200€ | 2 00+ | ž | |
| remachiorophenol Prepart hope | , | | 2000 | \$ \$ | |
| Anthracene | 1 |) () | 3 9 | € ≱ | |
| H-N-Butylphthalate | 3 | 300 | D 00+ | ź | |
| Fluoranthene Sense | \$ | ន្តទ | 25 | ≨: | |
| Suralberral Phebalate | | | | \$ \$ | |
| 3. Dictionobenzidine | { \$ | 2 | 810 U | ₹ | |
| Senso(a)anthracene | 5 | 2 : 8 : | ⊃: 2 { | ≨; | |
| Age - Ethylberyl) phrhalae | 14 | | 3 9 | £ \$ | |
| H-N-Octyl Pichalate | 1 | 380 | D 000 | ≨ | |
| Benzo(b)fluctanthene | Į. | 2 | D 00€ | ≨: | |
| Senso(E jiwaran bene Senso(a jiwaran | 3 4 | 360 | \$ | ≨ ≵ | |
| ndeno(1,2,3 -c,d)pyrene | | 2 | 3 | | |
| 3 | 3 | ⊃: 8; | D 8 | ≨: | |
| genec(Fp) betylene | Ş | ⊃ 98 | O 004 | Ź | |
| | | | | | |

Table B-2. Data Protentation: Background Soil Samples (1990) 122nd Tactical Fighter Wing, Indiana Air National Guard, Ft. Wayne, Indiana (Costinued)

| SAIC IN THE PROPERTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR | LEGINE S | | Cuard, FL. Wayne, | Indiana (Continued) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|------------------------|---------------------|
| ALC ID NUMBER | | 28-B-01 | 28-8-8S | 28-8-02KE |
| American Pieta Of Samuel | | 34770 50 01 02 | 10/17006 | WWZI /O'KE |
| Charles of Field Co. Samples | | 70-01 Ta-02 | 70-10-91 | FB-01-02 |
| Parameter | S | EW-0102 | EW-01-02-04 | EW-01-02-04 |
| SEMINOLATILE ORGANIC COMPOUNDS | <i>POUNDS</i> | | | J |
| (Coatinued) | | | | |
| N-Nitrosodimethylamine | Ş | 1900 | 2000 | Ş |
| Z-Fredine | 1 | 000 | 0.000 | ž |
| Polyn Methanesulfonste | 1 | | 2000 | £ |
| Anline | 1 | 1800 U | 2002 | € ₹ |
| Acetophenone | Š | 1800 | 2000 | ž |
| N-Nirrosopiperidine | \$ | 1800 U | 2000 U | ž |
| Dimethylphenethylamine | į | 1800 | 2000 | ş |
| 2,6-Dichtgrophenol | Ş | 98 | D 000 | ž |
| 1946 Translandon | Ž | | | ž |
| 1-Chloropaphthalene | | 1800 | 2000 | € 4 |
| Pertachiorobenzene | | 1800 U | 2000 | ž |
| 1-Naphthylamine | Ş | 1800 | 2000 | ź |
| 2-Naphthylamine | Ž | 1800 U | 2000 | ¥ |
| 1,2-Dippenyllydrazine | Ž. | 20081 | 2000 | £ : |
| roenscein 4-Aminobiobecud | Ž. | | | źź |
| Proceedide | | 2001 | 2000 | Źá |
| Benzidire | 1 | 1800 | 11 00002 | Ç 4 |
| p-Dimethylaminoazobenzene | Š | 1800 U | 2000 C | ź |
| 7,12 - Dimethylbenzo(a)anthracene | \$ | 1800 U | D 900Z | ž |
| 3-Methylcholanthrene | Ş | 1800 | 2000 C | Ş |
| TIC Totals | Z. | ž | ≨ | ş |
| ORGANOCHLORING PRSTICIDA | SS/PCB | | • | |
| alpha - BHC Aght | 104 | 1.6 U | 1.8 U | ž |
| beta-BHC | Ž | 1.9 U | 210 | ž |
| gamma - BHC (Lindane) | 1 | 210 | 240 | Ž |
| Gene - Bric | 1 | 250 | 270 | \$; |
| Aldrin | | 2,50 | 0.7 | ٤ź |
| Heptachlor Eponide | į | 23.0 | 797 790 | ź |
| Endosulfan-1 | Ş | 23 U | 26 U | ź |
| Dieldrin | ş | 22 U | 75 U | ž |
| Partie | 2 | | 0 87 | \$ \$ |
| Endonution-11 | | 2 2 | | Şź |
| ddbb | | 250 | 270 | ź |
| Endrin Aldetnyde | Ş | 29 U | 330 | Ź |
| Endosulian Sulface | ¥. | 300 | 340 | Ź |
| Ar-DUI Makenika | Ž. | 0.55 | | Ž |
| Chloridana | S | | | \$ 3 |
| Tomorhene | | 15.00 | 168 | \$ 2 |
| Aroclor - 1016 | į | 73.0 17 | 81018 | ž |
| Aroclor-1221 | | 0.026 | 110001 | 1 |
| Araclar - 1232 | Ş | 920 U | 1000 | ź |
| Araclar - 1242 | Ş | 920 U | 1000 U | ≨ |
| Aroclor - 1246 | ž | 73.0 U | 81.0 U | ž |
| Aroclor 1254 | Š | 166 | 51.0 0 | ≨: |
| 0.00 | | 3,00 | O OTA | |
| ם - נסכ ובליכו כה בשתב זה בשנה שכה חבר | NAME OF TAXABLE PARTY. | כמונכו נוחשו ולוכי ונוח | PURCHE LIGITATION LINE | 11 |

B – the report of value is estimated because it is greater than the instrument Detection Link (IDL).

but less than the Contract Required Detection Link(RDL).

But less than the Contract Required Detection Link(RDL).

But compoundedement was also detected in the senceisted field blank.

Compoundedement was also detected in the senceisted field blank.

Lettinated surder outside control links.

Lettinated value.

MB – compoundedement was also detected in the senceisted laboratory method blank.

NA – not analyseleted.

ND – not detected.

SRR – sample surrogate recovery outside control limits.

U – compoundedement was included in analysis, but was not detected.

| Associated Field QC Samples Parameter Total Petroleum Hydrocarbone | | 13278, 14202 13279, 14203 | | 1200, 14204 | 13281, 14205 13281RE, 14205RE 13282, 14206 | 13281RE, 14205RE | 13282, 14206 | 13283, 14207 | 13284, 14206 |
|--------------------------------------------------------------------|------------|-----------------------------|-----------------------------|--------------------------------------------------------------------|--------------------------------------------|-----------------------------|-------------------------------|------------------------------------------------------------|-------------------------------|
| Parameter Total Petroleum Hydrocarbona | | FB1-1 | FB1-1 | FB1-1 | 781-1 | FB1-1 | FB1-1 | PB1-1 | F81-1 |
| Total Petroleum Hydrocarbons | Colts | 1811-3-91 EB1-1,1A-1,4-1 | 1811-3-91 EB1-1,1A-1,4-1 | EB1-1,1A-1,4-1 | TB11-3-91 EB1-1.1A-1.4-1 | 1811-3-91 EB1-1.1A-1.4-1 | 7811-3-91 E81-1, 1A-1, 4-1 | TB11-3-91 EB1-1.1A-1.4-1 | TB11-3-91 EB1-1, 1A-1, 4-1 |
| | | 220 | 100 | 20 U | 0 os | VN. | 0 0S | O 08 | 0 05 |
| INORGANICS | | | | | | | | | |
| Antimony | #8/F | 3 UJ(N) | 3.3 U3(N) | 3.5 J(N,B) | 3.2 UJ(N) | ٧ | 3.6 UJ(N) | | 3.3 UX(N) |
| Arsenic | 7. | 85 | 93 | 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 | 7.1 | Y. | 8,7 | | 1.2 J(MB,B) |
| Cadmium | | 0.09 J(B) | 0.0 JD) | | 0.0 J(B) | | (a) X (a) | 0.55 XB) | |
| Circumian | | 22.2 | 21.1 | 16.7 | | ₹ 2 | 163 | 17.4 | |
| Copper | 7 | 30.2 J(N.*) | 28.6 J(N.*) | | | ž | 46.2 JKN.*) | | 1.9 JCM |
| Lead | 101 | 30.6 | 14.1 | 9.1 | 103 | ž | 20.6 | | 2 |
| Mercury | 7 | 0.1 U | 0.1 U | 0.1 U | 0.11 U | Y. | 0.11 U | 0.12 U | 0.12 U |
| Nickel | 184 184 | 263 | 34.7 | 27.9 | 37.4 | Y Z | 2 | 30.9 | 6 J(MB.B) |
| Selenium | 797 | 0.21 UW | 0.24 UW | 0.23 UW | 9.23 UW | Y : | 0.24 U | 0.23 UW | 0.24 U |
| Siner | 3 | D 9-6 | 0.47 U | 0.00 | 0.46 U | Y : | U 180 | 0.45 U | 0.47 U |
| Zoc | | 75.9 | 93 (8) 93 | 723 | (0.34 A(B) 76.1 | < < | 0 6730 6738 | (3) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4 | 16.1 JYMB) |
| | | | | | | | | | |
| VOLATILE ORGANICS (SOW 3/90) | _ | 11 11 | 11 35 | 11 63 | 51415 | 169 | 11 67 | 3 | 1 61 |
| Bromomethere | | |) | | (81)70 71 | 2 5 | 2 2 2 | | 075 |
| Vin Charide | NEWS | 2 | 2 2 2 | 3.53 | 12 UKIS) | | | - S | 12.0 |
| Chloroethane | MENE | חב | SS U | | 12 UJ(IS) | 62 U | D 69 | 0.68 | 12.0 |
| Metbylene Chloride | 4 | 2.9 | 27 U | | 25 3(1S) | | 32 U | ⊃ 62 | 2 |
| | HORE | 11 U | 55 U | 37 U | 29 X(IS) | D 29 | 0.63 | 2000 | 120 |
| Carbon Disulfide | 1.8/s | 9 | 22.0 | 25.5 | (SIXO 9 | 3 3 3 | 32 U | ⊃ = & \$ | ə : |
| | | | 27.12 | 2 2 | (SI)(I) | | 25.5 | 2 | • • |
| 1,2-Dichloroethene (Total) | HEAR | ם פ | D 12 | 28. | (SI)(N 9 | | 32.0 | 2 62 | 2 |
| Chloroform | HEAR | n 9 | 27 U | D 82 | (SI)(N) | | 32 U | D 62 | 2, |
| 1,2-Dichloroethane | - CAS |) * | 27 C | 7 C | (SIXIO 9 | | 3 S | ⊃: | . |
| 1 1 1 - Thinks | 270 | 2 2 | 2 2 2 | | (81)70 71 | | 2 : | 2 2 | 071 |
| Carbon Tetrachloride | | 2 | 2,52 | 2 28 | (SIXIO) | | 32.0 | 2 2 | • |
| Bromodichloromethane | HORE | 24 | 27 U | 28 U | (sixis) | | 32 U | 29 U | 1 |
| 1,2-Dichloropropane | HEARS |)) | 27 U | 25 C | ¢ UX(IS) | 310 | 32.5 | 2 | n., |
| CS-13-Denoropene | PAR. | | 0.77 | 9 7 | | | 25 | 3 |); • \ |
| Dibromodianomethane | | 2 5 | 27.0 | 2 80 | (SIAIL) | | 32.0 | - X | |
| 1,1,2-Trichtoroethane | HE/KE |) • | 27.0 | nga | 6 UKIS) | | 32.0 |) i | 2.4 |
| Benzene | HEAR | n, | 0 LZ | 28 U | (SI)(N) | | 32 U | 29 U | D |
| trans-1,3-Dichloropropene | HEARS. | n 9 | 27 U | D 92 | (SI)(IS) | | 32 U | D 62 | η, |
| Bromoform | # SA 8 |) • | 0.42 1.13 |) 8 7 | (SI)(IS) | 310 | 32.0 | D 62 | 2 |
| 4 - Methyl - 2 - pentanone | 100 | 2: | 2 2 2 | 25.0 | 12 UX(1S) | 25 | 3 | (SIXO &S | 2: |
| Tetrachione here | | 011 | 2.5 | 3,0 | (SIXII Y | 200 | 2 2 | SIVII 96 | 0.71 |
| 1,1,22—Tetrachloroethane | | 2 | 27.0 | 2 2 2 | (SIXIS) | | 32 U | 200 |) 3 |
| Toluene | #8X8 | 2.3 | 31 | = | (SIXIS) | 31.0 | 911 | 110 (SIS) | 1 |
| Chlorobenzene | FORE | η, | 27 U | n 92 | (SI)XO 9 | 31.0 | 32 U | 29 U.KIS) | Ω, |
| Ethyl benzene | |) • | 22 | ⊃ : % : | (SIXIS) | ⊃ : | 32.0 | (SIXO 62 |) • |
| Myene | 182 |) : • \ | 0.42 | 2: | (8) (0) |) : | 22.5 | (SI)ro 62 |) • · |
| Ayrene (10th) | FORE | | 9 | 3 | (c) (1) | 2.5 | 25 | (81)(0.67 | |

| the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of 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U 420 U | 13283, 14207 1811-1 1811-3-91 1811-1, 1A-1, 4-1 390 U 390 U 390 U | 13224, 14206 FB1-1 TB11-3-91 EB1-1, 1A-1,4- |
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| LB ORGANICS (SO W) H)ethor zene zene bloropropane) N - propylezalne e nol mol | | | | | ********* | 888888888 | D D 066 | 86 |
| if)etbar zene zene zene bloropropane) N - propylazilne e mol | | | | | \$ \$ \$\$\$\$\$\$\$\$\$\$\$ | | D D D D D D D D D D D D D D D D D D D | 286 |
| r)ether aene aene aene bloropropane) N - propylemine e e mol | | | | | ***** | | D D D S S S S S S S S S S S S S S S S S | |
| aene aene bloropropane) N - propykazulne e e mol | | | | | \$ | 188 188 188 188 188 188 188 188 188 188 | D D : | 25 |
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| sene sene bloropropane) N-propylamine e nol nol | | | | | ******** | 48 U 48 U 48 U 48 U 48 U 48 U 48 U 48 U | = | 36 |
| aene bloropropane) N-propylamine e mol mol | | | | | <<<<<<><<<<<<<><<<<<<<><<<<<<<><<<<<<><<<< | 28 | | |
| bloropropane) N - propylamine e noi sowy) methane | | | | D D D D D D D D D D D D D D D D D D D | { | 183 | 390 U | ** |
| N - propylazaine e nod say) methane | | | | D D D D D D D D D D D D D D D D D D D | ***** *** | D 007 | 390 | 386 |
| N – propylemine e mol mod mod mod mod | | | | 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | 22222 | 11 467 | | |
| N - propylamine e - propylamine nol - propylamine swy) methane | | | | | ***** | | | 3 |
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| | | 1 996 1 996 1 996 1 996 1 996 | 930 930 930 930 936 936 936 | 400 U | ¥: | 120 C | 390 U | |
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| | | 700 C 300 C 300 C | 376 U 976 U 976 | U 004 | 4 2 | D 927 | ∩ 96 € | ** |
| | | O 096 | 376 U | U 004 | V | 420 U | | * |
| 1.Z.4—Trichigrobenzene | | O 096 | 370 0 | 11 007 | · Z | 11 027 | | 1 |
| | | | | 1907 | \ Z | 7 907 | | |
| acia | | 360 U | 376 U | 1907 | ¥ Z | 1307 | 1 000 | • |
| Tene | | 0.098 | 370 U | 1987 | ** | 1702 | | |
| phenol | | 360 U | | D 004 | × | 420 U | 3 966 | ** |
| | 370 U | 360 U | 376 U | 100 4 | × | 0.027 | | * |
| | | 360 U | 370 U | 400 U | ₹Z | 420 U | | * |
| 2-Methylnaphthalene | | 360 U | 370 U | 700 A | ₹Z | U 624 | 390 U | 25 |
| 75 | 1800 U | 1700 U | U 0081 | 2000 U | 4 2 | 2000 U | U 0061 | D 881 |
| thalene | | 300 € | 370 U | 100 C | 4 2 | 450 U | D 860 | 86 |
| | | 1700 U | 1800 U | 2000 U | < z | 2000 U | D 0061 | |
| Dimethyl phthalate µg/kg | | 360 U | 370 U | J 004 | ₹z | U 023 | D 046 | |
| | | 360 U | 370 U | 7 00 1 | <u>ح</u> | O 024 | | |
| 2 | | 360 U | 37 6 U | 700¥ | × | 420 U | 396 (| |
| 3-Nitrosniline | 1800 U | J 9071 | 1800 U | 2000 U | X | 2000 U | D 0061 | * |
| | | 360 U | 370 U | 100 A | 4 Z | 450 U | | 25 |
| enol | | U 0011 | 1800 U | 2000 U | < 2 | 2000 U | | |
| | | 1700 U | U 0001 | 2000 U | 4 2 | 2000 U | | 9061 |
| Dibenzoluran µg/kg | | 360 | 370 U | 400 C | ٧ | D 02+ | | |
| 2,4-Dinitrotoluene | | 360 U | J 076 | U 004 | < 2 | 100¥ | | 25 |
| | 370 U | 360 U | 370 U | 400 U | ۲ ۲ | 450 U | 396 € | D 846 |
| oppenyl pbenyl etber | | 360 U | 370 U | 7 00 4 | ۲ ۲ | 1 0Z+ | 386 | * |
| Fluor ene AgArg | | 360 U | 370 U | 400 U | 4 2 | 750 U | ∩ 06€ | * |
| | | 1700 U | 1600 U | 2000 U | ٧x | 2000 U | ∩ 00¢1 | |
| 4,4-Dinitro-2-methylphenol Ag/kg | 1800 U | J 997. | D 0001 | 2000 U | ₹ Z | 2000 U | 20041 | <u>*</u> |
| | | | 25 | | ۷: ۲: | 0.024 | 2 | |
| כוש כנסם | | 2000 | 250 | 3 | X | 27. | D R | |
| | • | 0.000 | 0 P/s | 2 2007 | Š | 0 83 | 0.000 | |
| remot | | 0.00/1 | 300 | 2006 | ≨ : | 0 9097 | | |
| Phenenthrene | | 410 | 370 0 | 0.007 | Y | 0.024 | | |
| | 370 U | 0.000 | 25 | 56 | ¥ : | 200 | | |
| | | | 2 : | 0.004 | 4 | 0 824 | 0 266 | |
| TAGE DUCKETE STREET | 370 | 200 | 283 | 0.00 | ₹: | 720 0 | | K : |

| Table | B-3. Da | ta Presentation: B | Table B-3. Data Presentation: Background Soil Sampl | ples (1991) – 122 ¹⁴ Tactical Pighter Wing, Indiana Air National Guard, Ft. Wayne, Indiana (Continued) | etical Pighter Wing, | Indiana Air Nationa | f Guard, Pt. Wayne | 3, Indiana (Centinue | T |
|---------------------------------------|-------------|---------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------|--------------------|----------------------|----------------|
| SAIC ID Number | | BG1-1-1 | BG1-1-2 | BG1-1-3 | B01-1-4 | BG1-1-4RE | BG2-1-1 | BG2-1-2 | BG2-1-3 |
| Laboratory Sample Number | | 13278, 14202 | 13279, 14203 | 13280, 14204 | 13281, 14205 | 13281RE, 14205RE | 13282, 14206 | 13283, 14207 | 13264, 14286 |
| Associated Field QC Samples | | FB1-1 | PB1-1 | FB1-1 | FB1-1 | FB1-1 | FB1-1 | FB1-1 | FB1-1 |
| • | | TB11-3-91 | TB11-3-91 | TB11-3-91 | TB11-3-91 | TB11-3-91 | TE11-3-91 | TB11-3-91 | TB11-3-91 |
| Parameta | 2 2 2 | EB1-1, 1A-1, 4-1 | EB1-1,1A-1,4-1 | EB1-1, 1A-1, 4-1 | E81-1.1A-1.4-1 | EB1-1, 1A-1, 4-1 | EB1-1, 1A-1, 4-1 | EB1-1, 1A-1, 4-1 | BB1-1.1A-1.4-1 |
| SEMIVOLATILE ORGANICS (SOW 3799) | OW3/90) | | | | | | | | |
| (Continued) | | | | | | | | | |
| Pyrene | HE/KE | 1600 | 099 | 370 U | ∩ 90 + | ž | ⊃ 87 | 390 C | 386 |
| Buxyfbenzyfpbthafate | HEAR | 370 U | 360 U | 370 U | 100 t | Ž | 759 € | 386 | 2 88 |
| 3,3' - Dichlorobenzidine | MENE | 370 ∪ | 360 U | 370 U | → 00 | × | 1 97.7 | 390 U | 2000 |
| Bengo(a)anthracene | HE/RE | 1000 | 360 ∪ | 370 U | 100 T | × | 130 U | 386 | 200 |
| Chrysene | MEAN. | 370 € | 06+ | 370 U | D 007 | VX | 128 U | 2000 | ⊃ 9 € |
| bis(2-Ethyfbenyf)pbthalate | HEAR | 370 U | 370 | 370 U | U 004 | ž | ⊃ 92 7 | 386 | 286 |
| di - N - Octyl phthalate | MERE | 37 0 U | Ω 09E | 370 U | U 004 | × | 20 € | 396 0 | 2 886 |
| Benzo(b)(Norranthene | MEARS | 2200 | 1000 | 378 U | 2004 | × | 7.82 | 396 U | 2000 |
| Benzo(k) du cranthene | r Cks | 370 U | 360 € | 370 U | 100 t | ₹z | D 623 | 396 | D 866 |
| Benzo(a)pyrene | MEAR | 118 | 360 ∪ | J 976 U | 100 € | ۲ ۲ | ∩ 027 | 390 € | 268 |
| Indeno(1,2,3-cd)pyrene | ACA | 370 U | 360 € | 370 U | 2004 | ₹Z | 120 € | 296€ | 288 |
| Dibenso(a,b)anthracene | APAS | 370 U | 360 | 370 U | 100 C | Š | 1967 | 390 C | 38 C |
| Benzo(g,bJ)perylene | r PAS | 376.0 | 360 U | 370 U | 100 P | * | 150 U | 390 U | 266 |
| TIC Total | MENKE | 1.350(25) | 13700 (20) | 12070 (20) | 2650 (12) | ₹ | 2270(6) | 8836 (20) | 4200 (18) |
| R - the renorted value is assimated b | | greater than the last age | acause it is greater than the last ament Detection I mit (IDI.) he | hast loce than the Contract Required | Onlined Detection Imit/CPD | | | | |

B – the reported value is estimated because it is greater than tisk (1954 unsent Detection Limit (10L), but less than the Contract Required Detection Limit(CRDL).

15 – interreal standard outside control limits

1 – estimated value.

18 – estimated value is not selected in the associated laboratory method blank.

19 – some pound detected in the associated laboratory method blank.

10 – estimated sample recovery outside of control limits.

11 – compound detected in analysis, but was not detected.

12 – compound detected in analysis, but was not detected.

13 – deplicate ample analysis outside of control limits.

14 – deplicate analysis outside of control limits.

Table B.-4. Data Presentation: Site 1 -- Fire Training Area -- Soil Samples (1990) 122th Tactical Fisher Wine Indiana Air National Guard Pr. Wavne Indiana

| SAIC ID North | | CB1_01-11 | 12 22 | Tactical Fighter | Cot Man Indiana Air | National Guard, | Pt. Wayne, Indi | 201 A1 A1 | W igs | 60 14 160 |
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| Laboratory Sample Number | | 90021702 | | 90021701 | 90021801 | 20021006 | 90021803 | 90021703 | A0C17000 | SOC12008 |
| Associated Field QC Samples | | FB-01,-02 | | FB-01,-02 | FB-01,-02 | FB-01,-02 | FB-01,-02 | PB-01,-02 | FB-01,-02 | FB01,02 |
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| Personeter | | EW-01,-02 | | W-01,-02 | EW-03-W | EW-03-04 | EW-63-04 | EW-01,-02 | EW-01,-62 | EW-01-60 |
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| Copper | | 8. SE CI | | 88. | 19.76 6.761 | | 27.00 | 9.66 | 27.75 | R 5 |
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Table B.-4. Data Presentation: Site 1 - Fire Training Area - Soil Samples (1999) 122nd Tactical Fighter Wing, Indiana Air National Guard, Ft. Wayne, Indiana (Continued)

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Table B.-4. Data Frencatation: Site 1 - Fire Training Area - Soil Samples (1999) 122⁸⁴ Tactical Fighter Wing, Indians (Costinued)

| SAIC ID Number | CALLED CO. 180 | SAI - Mational Guard | CRI CAL MODE | Continued) | S1-14-14 |
|-----------------------------------------------------|-------------------------------------------------------------|---------------------------------------|-------------------|---------------------|---------------------|
| Laboratory Sample Number | 10952006 | 20902006 | 90023602RE | 90023693 | 90023694 |
| Associated Field QC Samples | FB-01,-02,-0 | 3 FB-01,-02-03 | FB-01,-02,-03 | FB-01-02-03 | FB-01,02,03 |
| Personal | 78-67 78-63-63 | 79-8T -0-8T | 18-67 FW-01-05 | 119-67 119-67-16 | 13-61 PW-M-M-W |
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| 1,2-Dichlorobenzene | 1000 1000 1000 1000 1000 1000 1000 100 | \$ | ≨ | 386 | ; ⊃ § |
| 2-Methylphenol | 200 | \$ 1 | ≨: | ⊃: 8 : | ⊃: 8 ; |
| 64.2-Calcadacycopy paner 4-Methylphenol 44 | | \$ | ≨ ≨ | | ⊃ ⊃ R R |
| N-Nitroso-di-N-propylamine | 200 | \$ | ≨: | 200 | 2: 8: |
| Nitrobensene | | \$ | € ≨ | | ⊃ ⊃ 8 9 |
| Jeophorone M | 380 | \$ | ž | 390 | 2 2 2 |
| 2-Nitrophenol | | \$ \$ | \$ \$ | ⊃: 8 } | ⊃ : 9 |
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| 4Calcromitte | | ₹ ₹ | ≨ ≨ | | |
| 4-Chloro-3-methylphenol | | \$ | €\$ | | 200 |
| 2-Methylnaphtbalene | | \$1 | ≨; | ⊃: 8 | ⊃: 2 ,1 |
| 2.4.6-Trichlorophenol | | * | € ≨ | | |
| 2.4.5-Trichlorophenol | | 95 | ¥ : | 98 | D 985 |
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| Table B-4. Data Presentation: Site | 204 Tactical Pichter Wine. Indiana A |
| Table B-4. Data Presentation: Site 1 - Pire Training Area - Soil Samples (1990) | 22 ³⁰⁴ Tactical Piehter Wine. Indiana A |
| Table B-4. Data Presentation: Site | 122 ⁰⁴ Tactical Piehter Wine, Indiana A |
| Table B-4. Data Presentation: Site | 1220d Tactical Pichter Wine, Indiana Air National Guard. Ft. Waves, Indiana (Continued |

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| | Arcelor 1240 | | | : | | | |

internal standard outside control limits
 estimated value

- compound/element was also detected in the associated laboratory method blank

NA - not analyzed

NEX. — sample surveyers recovery outside control lients.

TB — compound/element was also detected in the sesociated trip.

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| Table B -5 . Data Prescutation: Site $1-{ m Fire}$ Training Area $-$ Groundwater Samples (199 | 1220d Tactical Highter Wing, Indiana Air National Cuard, Pt. Wayne, Indiana |
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| SAIC ID Number | • 1 | Pł 💮 | MWI-02 | P-6 |
|--------------------------------------------------------|------------|---------------|------------------------|---------------|
| Laboratory Sample Number | | 20152006 | 90025101 | 90025105 |
| Associated Field U.C. Samples | | FB-01,-02,-03 | FB-01,-02,-03 TR-11 | FB-01,-02,-03 |
| Parameter | Units | EW-07,-08,-09 | EW-07,-08,-09 | EW-06,-09 |
| Total Petroleum Hydrocarbons | y\$u | 01 | 0.1 | 10 |
| METALS | | | | |
| Antimony | 18 | 1.00 U | 1.00 U | D001 |
| Arsene | 1 | 5.80 3(8) | 5.40 J(B) | 2.00 (|
| Cadmium | 14 | 7.00 C | | 2007 |
| Chromium | 3 | 13,00 U | | 13.00 U |
| Copper | 3 | 11.00 J(PB,B) | | 37.00 J(FB) |
| X | \$ | 4.80 J(FB,B) | | 6:80.(FB) |
| Nickel | | 14.00 J(MB.B) | | 12.00 U |
| Selenium | 4 | 3.00 UW | | 3.00.0 |
| 20 Value | 1 | 11.00 U | | 11.00 U |
| Zirz | 11 | 15.003(FB,B) | \$1.00.J(PB) | 24.00.J(PB) |
| VOL 4TH R OBGANIC COMPONINGS | MUSC | | | |
| Chloromethene | 44 | 0.01 | 100 | 100 |
| Bromomethane | 4 | 200 | 100 | 201 |
| Vinyl Chloride | Ę | 200 | 25 | 200 |
| Charactere Chicite | ž. | 25 | |) 0 1 |
| Actions | | 2 2 | 2 9 | 0 6 1 |
| Carbon Disulfide | 4 | 20.5 | 9 0 | ns S |
| 1,1 - Dichlorochene | ¥. | | D : | 2. |
| 1,1 = Dichlorosthene (rotal) | | 2 2 | 2 5 | 25 |
| Chloreform | 1 | | 2 | 2 5 |
| 1,2 - Dichloroethane | į | 30 | 30 | 3.0 |
| 2-Butanone | 4 | |) 91 1 | |
| 1,1,1 - irreptorochane Carbon Terachloride | 1 4 | 2 2 | 200 | 200 |
| Vinyl Acetate | Ę | | 200 | 200 |
| Bromodichioromethane | Ž. | 2: | n; | |
| 1,4 = Denied opropaire els = 1,3 = Dichler coronere | 1 | 25 | 25 | 25 |
| Tribloroathene | 1 | 2 2 | 2.2 | 22 |
| Ditromochloromethane | Š | | | |
| 1,1,2 - Incherochane Benzene | 1 4 | 200 | 22 | 2 6 |
| trans-1,3-Dichloropropens | 됳 | | D.S | 25 |
| Broadorn 4 Males - 2 messes | Ž, | 25 | 2 : | 2 : |
| 2-Heranose | 14 | | | 2 2 |
| Tetrachlorosthene | Ę | 30 | 30 | 3.0 |
| 1,1,2,2—Tetrachioroghane Tolisco | Ž. | 25 | 25 | 25 |
| Chlorobenaene | 1 | 2 2 | 2 2 | 2 2 |
| Ethylbenzene | Ž. | 2 | 2 | S |
| Skyrene Total Yelenes | į | 25 | 25 | 25 |
| 2-Chicroethyl Vinyl Ether | Ę | 2 2 | 100 | 200 |
| lodomethane | 3 |) : 1 | ⊃: •: | 201 |
| Acrytochrile | 1 | 2 2 | \$ | \$ |
| Discommethane | Į. | D 2 | 200 | D 91 |
| 1,4,5 - Instructoropane 1,4 - Dichlorobut ane | 1 | | | |
| Ethyl Methacrylate | Ę | 2 | 2 | 100 |
| Triblorofigueromethee | Ž | | | |
| TicTone | 1 | \$ ≨ | R ≨ | 8 ≨ |
| | | | | |

| Assessed Black Or Community | | 90025102 | | 501 52006 101 57006 |
|-------------------------------------------|---------------|-----------------------------------------|----------------------------|---------------------------|
| Associated Field CC Samples | | FB-01,-02,-03 | FB-01,-02,-03 | FB-01,-02,-03 |
| Parameter Units | | EW-07,-08,-09 | EW-07,-05,-69 | 1 D = 12 EW ~ 06, – 09 |
| SEMIVOLATE B ORGANIC C | | 11.01 | • | 100 |
| rneno bis/2-Chlorostissbether | | 2 2 | 2 2 | |
| 2-Chlorophenol | 1 | | 200 | 0.01 |
| 1,3 - Dichlorobenzene | 3 | > ° |) | 25 |
| Benzy Alcohol | | 2002 | 28.0 | 38.0 |
| 1,2-Dichlorobenzene | 3 | 2.5 | 2 | 200 |
| 2-Methylphenol | 4 | | 2: | 2 |
| Mathematical American | į | | 2 5 | 2 5 |
| N-Nitroso-d-N-propylamine | į | 2 2 | 2 | 2 2 |
| Hexachiorosthane | Ž | D 01 | 2 | 200 |
| Nkrobenzene | TAN TO |) e | | 9 |
| laophorone 2 - Na contrary | Į. | 25 | 2 5 | 2 5 |
| 2.4 - Dimetholoperol | | | | |
| Benzolc Acid | į | 200 | 200 | 2 3 |
| bis(2-Chlorosbony)methans | Total Control | 1 9 1 | 1 1 1 1 1 1 1 1 1 1 | 701 |
| 2,4-Dithlorophenol | F. | □ 01 | 2 | 7 €1 |
| 1,2,4-Trichlorobenzene | Ą | | 2 | 2 |
| Nephthalene | Į, | ⊃ : 2 | 2 2 | 2 2 |
| 4-Chdroeniine | | O 5 | 2 5 | R |
| A Character Control of the Character | | | | |
| 2-Mathapathihalan | | ======================================= | 2 | 2 2 |
| Hezachlorovelopentadiene | | D 91 | 200 | 7.01 |
| 2,4,6-Trichlorophenol | į | 2 61 | 200 | 30.0 |
| 2,4,5 - Trictslorophemol | Ĭ | 2000 | 200 | 7 05 |
| 2-Chloronaphthalene | Į, | 2: | D e | 2: |
| Z-Miroaniine | Ž. | 2 . | ⊃ : 9, 9 | 2 : |
| Accept reports | | 2 5 | | |
| 2.6 - Dintrotoluene | 1 | | | 2 |
| 3-Ntroenitine | 4 | 20 € | ⊃ 9 \$ | 28 |
| Acenaphthene | A P | 1 0 C | 2 € | 26 |
| 2,4-Dinkrophenol | 7 | ⊃: \$: | 95 | 25 |
| 4-Ntrophenol | 1 | | 2 5 | 2 5 |
| 2.4-Distratelises | | 2 2 | | 2 5 |
| Dietalotebalas | | 2 | 200 | 2 |
| 4-Chicropengl-phenyl Ether | , in | 2 2 | 0.82 | 28 |
| Plucrene | Ž | 191 | 2 | 2 |
| 4 - Na complime | Ž | ⊃: \$: | 9 | 95 |
| A.o. Liverico - 2 - metropolemon | 4 | 2 = | 2 5 | 2 2 |
| 4-Bromoehenvi-ohenvi Ether | | 2 2 | 2 | 2 2 |
| Hezeblorobenzene | 4 | 2 | 2 | 2 2 |
| Pentachlorophenol | Ž | 28 | 26 | 28 |
| Phonanthrene | Ę | 2 | 2 | 2 |
| Anthracene | 7 | 2 | 2 | 2 |
| GI-N-Bulypunheise | 1 | | | 2 5 |
| Perena | | 2 | | |
| Butylbenzylpitt balate | 1 |) 1 | 2 | 2 |
| 3,3'-['lorobenzidine | 1 | 25 | 2: | 2 |
| Benzo(a)ert firzzene | į | 2 | | |
| biol 2 - Rhadhand bate halate | 1 | | 2 | |
| di - N - Octyl Parisalene | 1 | 201 | 2 | 200 |
| Bengo(b)fluoranthene | Ž | 200 | 2 | 250 |
| Benzo(k) Muoranthene | Į. | 2: | 2: | 2: |
| Denso (a) pyrene Industri 2 3 4 houses | į | 2 5 | | |
| Diseased a blancharous | | 2 5 | | 2 5 |
| Barrelo h Dandan | ŀ | | | |

Table B.—5. Data Presentation: Site I — Fire Training Area — Groundwater Samples (1990)

122nd Tactical Eghter Wing, Indiana Air National Guard, Pt. Wayne, Indiana (Continued)

SAIC ID Number

Laboratory Samples Number

Laboratory Samples Number

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| Acetophenone | we/L | 200 | 2002 | Cos |
| N-Nitrosopiperidine | MAT | 200 | 200 | n es |
| Dimet bylphenet by lamine | W. | 2000 | D 05 | 2 |
| 2,6 - Dichlorophenol | 7 | 20 € | ⊃ 8 3 | 2 |
| N-Nitroso-d-N-butylamine | Total Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the | 2000 | 28 | 30 U |
| 1,2,4,5 - Tetrachiorobensene | HDT. | ⊃ \$ | 30 U | 2 |
| 1-Chicronaphthalene | 7 | S | 200 | 2 |
| Pentachlorobenzene | 7 | 28 | 200 | 2 |
| 1 - Naplit tyta mine | 7/34 | 200 | N 98 | 25 |
| 2 - Napit intamine | 787 | 20 ℃ | 200 | 28 |
| 1,2 - Dipbenylbydrazine | 784 | | ⊃ es | 200 |
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| 4 - Aminobiphenyl | 704 | 2000 | 2003 | 200 |
| Pronamide | 7 | 20 ℃ | 000 | 28 |
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B – the reported value is callmated because it is greater than the instrument Detection Link (IDL), but less than the Contract Required Detection Limit (CRDL).

Required Detection Limit (CRDL)

Required Detection Limit (CRDL)

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| ### 10 10 10 10 10 10 10 1 | INORGANICS | | | | | | | | |
| ### 1979 1979 1979 1979 1979 1979 1979 1 | Antimony | mg/kg | 3.1 UJ(N) | 3.4 UJ(N) | 3.2 UX(N) | 3.3 UJ(N) | 3.3 UJ(N) | Ź | 3.3 UJ(N) |
| Control | Arsenic | mg/kg | 9.5 | 8.6 | 8.6 | () | 9.7 | | X : |
| 15 15 15 15 15 15 15 15 | Berydlum Cod-Line | BEAR | 0.33 J(B) | U.6 J(B) | 0.30 J(B) | 0.44 J(B) | | | 0.73 J(B) |
| The contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contract contra | Chromium | | 8.5 | 0.74 J(MD,D) 18.6 | 0.03 CA(MB,B) | 0.33 (MB,B) 17.3 | | | 22.0 |
| Marcoline | Copper | mg/kg | 22.4 J(N,*) | 27.4 J(N,*) | 39 J(N,*) | 23.6 | | Ź | 18.8 J.N. |
| mg/45 0.11 0.12 0.14 0.12 0.14 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 <t< td=""><td>Lead</td><th>mg/kg</th><td>15.7</td><td>13.6</td><td>16.2</td><td>11.4</td><td></td><td>£</td><td>16.2</td></t<> | Lead | mg/kg | 15.7 | 13.6 | 16.2 | 11.4 | | £ | 16.2 |
| ### 2007 10 10 10 10 10 10 10 10 10 10 10 10 10 | Mercury | mg/kg | 0.11 U | 0.12 U | 0.1 U | 0.1 U | | ž | 0.12 U |
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| Specification Comple Number | | 12188 12107 | 30121 08121 | 11100 11100 | (-1-196 | 00CF1 \$8CE1 | 7711 - 7 - 10C | 7-7-10C |
| Associated Field OC Samples | | FB4-1 | FB4-1 | FB4-1 | FR1-1 | FR1-1 | FRI-1 | PR1-1 |
| | | TB11-1-01 | TR11-1-01 | TR11-1-91 | TR11-3-91 | TB11-3-91 | TR11-3-01 | TR11-1-01 |
| Parameter | Saits Caits | EB4-1 | EB4-1 | EB4-1 | EB1-1, 1A-1, 4-1 | EB1-1, 1A-1, 4-1 | EB1-1, 1A-1, 4-1 | EB1-1, 1A-1, 4-1 |
| STALINOLATILE ORGANICS (SOW 1990) | (045 A) | | | | | | | |
| Phenol | HE/KB | 99 | 380 C | 420 N | 7 00 4 | ž | 1900 U | ⊃ 0 0 |
| bis(2-Chloroethyt)ether | HE/KB | 9 | 0.06 | 120 0 | 000 | Ž | 1900 U | 000 |
| 2-Chicrophenol | HE/KB | \$ \$ | | 120 0 | 0.00 | Ž : | 0.0061 | 000 |
| 1,3 - Dichloropenzene | 1678 |) = | 2 8 | | | \$ | 0.0067 |); |
| 1.7 - Dichlorchenzene | | 8 6 | | 727 | 3 | £ 2 | 1900 I | |
| 2-Methelphenol | | 3 | 2 S | 2007 | 200 | Šž | 1 met | 3 |
| 2.2.—cachis(1—Chloromonane) | 2 mg | 3 | 2 SE | 2007 | 3 | £ 2 | 1 0001 | |
| 4-Methylphenol | | \$ | 8.5 | 2007 | 1007 | Ž | 11 0001 | 3 |
| N-Nitroto-di-N-propybilline | e a | \$ | 3000 | 200 | 2 6 7 | ₹ ≵ | D 0061 | 9 |
| Hemchkroethane | ALC ALC | 200 | D 066 | 100 P | D 994 | ź | 1900 U | 0.00 |
| Nitrobenzene | ARA PER | ⊃ 00 7 | 390 € | O 02+ | D 007 | ž | U 0001 | D 004 |
| Isopharone | He Age | \$ | 06€ | ∩ 02 * | D 007 | ž | 1900 U | J 004 |
| 2 - Nitrophenol | Fe/s | \$ | 200€ | ∩ 02 7 | 1 00 1 | ž | 1900 U | D 90₹ |
| 2,4-Dimethylphenol | He/kg | 8 | 380 C | D 027 | ⊃ 00 7 | Ź | 1900 U | ∩ 00 0 |
| bis(2-Chloroethoxy)methane | 188 | | 366 366 | O 02+ | D 904 | Ź | 1900 U | 100 |
| 2,4 - Dichlorophenol | TE AR | \$ | 2066 | 0.00 | D 007 | ž | 1900 U | D 007 |
| 1,2,4—Trichlorobenzene | EVE | ₽ : | 200 | 0 629 | | ž | 0.0061 | |
| Naphthalene | 1 | ₽ : | | 2 | 2 | ž | 0.9061 | \$: |
| 4-Chloroanishe | 3 | ⊋; | ⊃: R R | 2 3 3 | 9 | ž | 0.0061 | ⊃: |
| A Chief 2 material | | 3 8 | | 2 4 | | \$? | 386 |) |
| Lineapho combone free | | | | | 98 | \$ 2 2 | | 3 |
| 2.4.6—Trichlocorhenol | | | 2 5 | 2 64 | 3 | ₹ 2 | | 3 \$ |
| 2-Methytraphilialene | | 9 | 3000 | 7.02 | \$ \$ | ź | 19061 | 29 |
| 2,4,5-Trichlocrophenol | Je k | 1900 | 1900 U | 2000 C | 2000 U | Ž | 0300 U | D 000Z |
| 2-Chloronaphthalene | Ş | \$ | 300 C | ∩ 07 + | O 00+ | ≨ | 1900€1 | ∩ 00 * |
| 2-Nitrogniline | HE/KB | 1900 | 1900 C | 2000 C | 2000 U | £ | 0006 | 2000 C |
| Comethyl philable | EXE. | Ş | ⊃: 86: | 1 0 C | D 000 | ≨: | 200 | ⊃ : 00‡ |
| Accrapminated | | | 2 5 | 25 | 200 | \$: | 0.000 | 3 |
| 2- Varcenijae | | _ | 2 6 5 | 0.000 | 11000 | £ 2 | 11 00% | |
| Acenaphthene | me/ke | 1007 | 3000 | 420 17 | 1004 | ź | 7 0061 | 1007 |
| 2.4 - Dinitrophenol | HE/RE | 1900 | D 0061 | 2000 C | 2000 C | Ž | 0.000 | 2000 U |
| 4 - Nitrophenol | He/kg | 1900 | D 0061 | 2000 C | 2000 U | Ź | O 0006 | 0002 |
| Dibenzofuran | HE/KB | \$ | 300 € | ⊃ 02 + | D 004 | ş | D 0061 | D 00# |
| 2,4 - Dinitrotohene | ABARB. | \$ { | ⊃ : 88 | 250 | D : | ≨: | 2001 | 2 2 3 3 3 3 |
| Lycinyi prinziate 4 – Chlosophemi shemi athe | 4 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | | 2 5 | 284 | 3 | 4 2 | 2 600 | |
| Fluorene | 46/kg | 9 | 2 S | 707 | 2 6 | £ 2 | 2005 | 9 |
| 4-Nitroeniline | He/E | 19001 | 20061 | 2000 C | 2000 C | Ź | O 0066 | D 000Z |
| 4,6-Dinitro-2-methylphenol | FEAS | 1900 | D 0061 | 2000 U | 2000 C | ¥ | 0.00% | C 000Z |
| N-Nitrosodiphenylamine (1) | HE/KB | \$ | 300€ | 70 C | O 004 | ¥ | 1900 U | ∩ 00 + |
| 4-Bromophenyi phenyi ether | HE/KB | \$; | ⊃: 86: | 100 | 200 | ≨ ∶ | D 0061 | ⊃ : 80 1 |
| Herachic obenzene | Me Ma | \$ | 2 8 8 | 2 62 | 2007 | ≨ : | 0.0061 | 200 |
| renachiorophenol | 5 | _ | 38 | 0.0002 | 0.0002 | \$: | O BOSS | |
| recommence Anthropine | MEN B | 8 8 | 266 | | | \$ \$ | | 3 5 |
| Carbazole | He Ag | \$ | 386 | 28 | 200 | € ≨ | 0.0061 | |
| di-N-Butyl phthalate | S S | 9 | 330.0 | D 024 | D 007 | ž | D 0061 | □ 00 |
| Fluoranthene | 16/8 | | 390 U | 450 C | O 00+ | ž | 13000 D | O 00# |
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| 6. Data Presentation: Site 1 - Fire Training | |
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| | TLTLTON | | | | | | |
| Laboratory Sample Normier | 13188, 13197 | | 13190, 13199 | 13289, 14222 | 13285, 14209 | | 13286, 14210 |
| | 1 700 | | FP4-1 | 1-1H2 | FB1-1 | | 191-1 |
| | | | 5 | | | | |
| | TB11-1-91 | | TB11-1-91 | TB11-3-91 | TB11-3-91 | | 1811-3-61 |
| Parameter Units | | EB4-1 EB4-1 | EB4-1 | EB1-1, 1A-1, 4-1 | EBI-1, 1A-1, 4-1 | EB1-1, 1A-1, 4-1 | BBI-1, 1A-1, 4-1 |
| SEAUVOLATILE ORGANICS (SOW 3%) | | | | | | | |
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| Denza(a)pyrene | | 2 | | : | 2 | 11 0001 | 11 000 |
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| of a banthancene | | 11 00% | 420 U | 2 | Ş | 1984 1984 | 200 |
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| h,i)perylene | | 2000 | 3 4 | \$ 1000 P | : 2 | () was:: | 2000 |
| TIC Total | 12960 (18) | 12980 (20) | 6) | (0T) 0C00 | ٤ | 1100011 | TIT DON |
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HEARG 12590 (18)

1770 10001

B - the reported value is estinated because it is greater than the Instrument Detection Limis (IDL), but less than the Contract Required Detection Limis (CRDL)

B - the reported value is an analyzed at a secondary dilution factor after exceeding the calibration range of the instrument on the first analyzed

J - estimated value

MB - compoundelement was also detected in the associated laboratory method blank

N - spliked sample recovery outside of control limits

NA - not analyzed

NA - not analyzed

W - post-digestion spike for Graphite Furnace Atomic Absorption (GFAA) analyzis is out of control limits (85-115%), while sample absorbance is less than 50% of the splike absorbance

- dupticate ample analyzis outside of control limits

Table B-6. Data Presentation: Site 1 - Fire Training Area - Soil Samples (1991)

| SAIC ID Number | | CB1-2-3 | CRI-3-4 | SB1-2-50 | CB1-7-7 CB1-7-1 CB1-7-1 | CB1-1-1 | CB1-3-3 | CB1-1-1 | CD1 - 1 - 2D |
|------------------------------|-----------|------------------|-----------------------|-----------------------------------------|-------------------------|------------------|-----------------------|----------------------------------------|-------------------------|
| Photograph Number | | 11671 18621 | 63L71 | | 1-7-10C | 1250 1476 | 7-5-195 | 14761 14771 | 14363 14373 |
| Associated Pield Of Sumples | | PR1-1 | FB2-1 | 1400 | FB11 | FR1-1 | FB1-1 | 14201, 14271 PR1 - 1 | 11767, 11212 |
| | | TR11-1-01 | 1-70.1 10-79-110TF | 1-701 TE11-4-01 | 1211-1-112T | TR-11-06-01 | 1-10-1 10-30-11-6T | 1-197 10-20-11-87 | 1-101 1-101 1-101 |
| Parameter | Caits | EB1-1, 1A-1, 4-1 | EB2-1 | EB2-1 | EB1-1, 1A-1, 4-1 | EB1-1, 1A-1 | EB1-1, 1A-1 | EB1-1.1A-1 | EBI-1.14-1 |
| Total Petroleum Hydrocarbons | | 0.08 | ٧X | Y. | 0 0S | 0.0% | 200 | 0.0% | 0.0% |
| INDROAMECS | | | | | | | | | |
| Antimore | mg/kg | 3.6 UJ(N) | | 3.3 UKN | 3.4 UJ(N) | 3.3 UKN | 3.2 UKN | 3.3 CKN | 3.4 XB.N |
| Arsenic | meks | 8.2 | 7.8 R(N) | 6.7 R(N) | 6.7 | 6.3 3(*) | 9.7 3(*) | 3.9 J(*) | 5.7.1(*) |
| Beryllium | mg/kg | 0.76 J(B) | 0.42 J(B) | 0.46 J(B) | 0.5 J(B) | • | | | 0.47 J(B) |
| Cadmium | E C | 5.26 | 0.45 J(B) | 0.73 J(B) | 0.53 J(MB,B) | | | | 0.53 J(MB,B) |
| CHORNE | | 282 | | 173 | 17.3 | | # Y 0 0 | 14.0 | 15.4 |
| | | 29.5 J(N,°) | 282 | 5 £ | 29.1 J(N,°) 9.7 | 2.23 | 19.0 | ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;; | 17 S |
| Memire | | 2 5 | 0.1174477 | 011111111 | | | | 13 11 6 | |
| Nickel | | 2 Z | 29.3 | 30.6 | 33.3 | 28.1 | 25.0 | 362 | 3.15 |
| Selenium | me/kg | 0.25 UW | 0230 | 0.22 U | 0.24 U | 0.59 J(MB,N,B) | | | 0.23 UJIN |
| Silver | T/Su | 0.51 U | 0.46 U | | 0.48 U | 0.48 U | | | D 99'0 |
| Thellium | A A | 0.4 J(B) | 0.26 J(MB,B) | 0.22 U | 0.37 J(B) | 0.3 J(MB,B) | 0.26 J(MB,B) | | 0.49 J(MB,B) |
| 2007 | | | 711 | 1.10 | 8.66 | Ç. | | | |
| VOLATILE ORGANICS (SOW 399) | | ; | | ; | | ; | ; | | |
| Chlcromethane | \$ | ⊃: : | ວ: | ⊃ : | 22 : | ⊃ : S : | ⊃; | ⊃ : | 2 : |
| Bromomenane | 7. |) 13 | 3 8 | 2 : | 0.51 | 3 |); ; |); ; | ž |
| Very Chicago | | | 3 8 | 3 8 | 2 2 | B & |) : | ⊃ = ĕ • | ≨ 2 |
| Methylene Chlyride | | 2.9 | 3 % | 3 3 | 19 | 67 LYFE | % LYFE | | \$ 2 |
| Acetone | À | 13 U | 28 | D 29 | 12.0 | 120 U(EB) | 160 | 222 | ≨ |
| Carbon Disulfide | F. A. | 09 | 31 U | 31 U | 0.9 | `∩ 0€ | 300 | 28 | ž |
| 1,1-Dichloroethene | FEVE F |)) | ລ: ສ: |) E | 7.9 | 2 | 200 | 2: 8: | Ź |
| 1,1 - Denioroethane | FOXE | 2; |) : E : | ⊃ : E : | 2 : | 2 5 | つ: R 4 | 2: | ≨ ; |
| Chloroform | | |) = 7 |) = | | 2 E | 2 E | 7 5 | ₹ 2 |
| 1.2-Dichloroethane | | 2 | 3 2 | 2 2 | 2 | 2 2 | 2 2 | 2 2 | \$ * |
| 2-Butanone | 3 | ១១ | 200 | 28 | D 21 | 9 |) T9 |) T9 | ź |
| 1,1,1-Trichloroethane | reks 1 | n, | 3 0 | 310 | D ; | ⊃: 8: | 23 | 2 8 | ž |
| Carbon Tetrachionide | FERE | 2 | ⊃ : E : | ⊃ : | | ⊃ = R | 2 8 | 2: | ≨ ; |
| 2 - Dichlocomonae | | 9 4 | 2 2 | - = = = = = = = = = = = = = = = = = = = | 9 49 | 2 S | 2 S |) | £ 2 |
| cis-1,3-Dichloropropene | 1 | 29 | 3 5 | 3 18 |)) | 2 8 | 2 2 | 2 2 | ₹ ≨ |
| Trichloroethene | A SA | n9 | 31.0 | 31.0 | 29 | ∩ 6 6 | 30 C | 200 | ž |
| Dibromochler omethane | ¥. |)) |); E | ລ: |); | ລ: ຂໍ | ⊃: | ⊃: 8: | ≨: |
| 1,1,2 Iricaloroethane | | |) i | ⊃ :: | 2 4 | ⊋ : | 2 2 | ⊃ = | ≨ ≩ |
| trans-1,3-Dichkropropene | | 9 | 3 2 | 3 8 | 9 | 2 2 2 | 2 8 | 2 2 | € ≨ |
| Bromoform | 15 kg | 29 | 31 C | 31 U | 09 | D 0€ | 30 C | 300 | ž |
| 4-Methyl-2-pentanone | Ž. | D 55 | S DICES | 62 UI(IS) | 12.0 | ⊃: 9 : |); (4) |) i | ≨: |
| 2-Heranone | FERE | 130 | (SI)(I 29 | SE COLOR | 0 21 | ⊃ = 8 8 |) ; | ⊃ 5 | ≨ ∶ |
| 1.1.2.2—Tetrachicroethane | | 9 % | 31 UKIS | | 9 | 2 S | o ⊃ |) R 8 | \$ \$ |
| Tolbene | Ž | 0.9 | 31 UNIS | 140 UKIS | 29 | 3 | 2 | 3 | € ≨ |
| Chlorobenzene | Ž. | D ; | 31 UKIS) | 31 (1)(1) |) (| ⊃: 8: | 25 | 28 | ž |
| Eurypensen | ¥ | 2 5 | SI CI(S) | | 2 5 | 2 S | ⊃ = R |) | Y 2 |
| Xyene (Total) | 1 | 9 | 31 (15) | 31 UKIS) |) • • | o ⊃ R | 2 2 | o ⊃ R | ≨ ≵ |
| TIC Total | Ž | 600 | (0)0 | 6)0 | 6)0 | (6) 0 | 6)0 | 6) | ź |
| | | | | | | | | | |

Table B-6. Data Presentation: Site 1 - Fire Training Area - Soil Samples (1991)

| Laboratory Sample Number 1325, 14211 Associated Field QC Samples 1811–3–91 Fight VOLATILE CRECAINCS (SOW 379) Fiftend bid: Chlorochryllethor 1947 1.3 - Dichlorocheraene 1947 1.3 - Dichlorocheraene 1947 1.4 - Dichlorocheraene 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - Chlorochrylethod 1947 1.5 - 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1 TB11 - 6 - 91 EB2 - 1 EB2 - 1 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) 60 R(SSR) | | 13286, 14212 FBB-1 FBB-1 TB11-3-1 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 U 380 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Table B.-6. Data Presentation: Site 1 - Fire Training Area - Soil Samples (1991) 12784 Tastical Richard Wise Malian Air National Grand By Wasse Indiana (Continued

| | İ | | 122" Tactical Fight | ter Wing, Indiana | . Air National Guard, Ft. | Ξ | (Continued) | | |
|-----------------------------|---------|------------------|---------------------|-------------------|---------------------------|-------------|------------------|-------------------|--------------|
| SAIC ID Number | | SB1-2-3 | SB1-2-5 | SB1-2-5R | SB1-2-7 | | SB1-3-2 | SB1-3-3 | \$81-3-36 |
| Laboratory Sample Number | | 13287, 14211 | 14352 | 14353 | 13288, 14212 | | 14260, 14270 | 14261, 14271 | 14262, 14272 |
| Associated Pield QC Samples | | 781-1 | FB2-1 | FB2-1 | FB1-1 | | FB1-1 | FB1-1 | FB1-1 |
| • | | TB11-3-91 | TB11-6-91 | TB11-6-91 | TB11-3-91 | TB-11-05-91 | TB-11-05-91 | TB-11-05-91 | TRIP BLK. |
| Parameter | 5 | EB1-1, 1A-1, 4-1 | EB2-1 | EB2-1 | EB1-1, 1A-1, 4-1 | | E81-1, 1A-1 | EB1-1, 1A-1 | EB1-1.1A-1 |
| SOUTHOLATTLE ORGANICS (SOW. | (06/5/1 | | | | | | | | |
| (Continued) | • | | | | | | | | |
| Pyrene | Merks | 2 83 | 400 RUSSR) | | | 390 J | 1700 | J 004 | U 044 |
| Butybenzyphthelate | Ä | 420 C | 400 R(SSR) | | | 390 U | 000 | J 004 | 0.004 |
| 3,3' - Dichlarobenzidine | A A | 28 | 400 RUSSR | | | 300 C | D 007 | D 004 | 0.00 |
| Benzo(a)anthracene | Ž | ⊃ 83 | 400 R(SSR) | 410 R(EHT) | 380 C | 390 U | 740 | D 00+ | D 884 |
| Chrysene | Ž | 28 | 400 R(SSR) | | | 390 U | 730 | O 00+ | D 884 |
| bis(2-Ethylbenyl)phthalate | 1 A | ⊃ 8 3 | 400 R(SSR) | | | 390 U | 100 1 | U 004 | D 994 |
| di-N-Octyl phthalate | A A | ⊃ 05¢ | 400 R(SSR) | | | 300 C | 100 1 | U 004 | D 994 |
| Benzo(b)(horanthene | Ž | 7 0CF | 400 R(SSR) | | | 390 J | 1300 | 00 | U 997 |
| Benzo(k) fluoranthene | i k | O 024 | 400 R(SSR | | | 390 U | 100 C | D 00+ | J 994 |
| Benza(a)pyrene | He/Ke | D 02₹ | 400 R(SSR) | | | 160 J | 250 | U 004 | U 994 |
| Indenc(1,2,3-cd)pyrene | HE/E | 200 | 400 R(SSR) | | | 390 U | 10L | J 007 | D 994 |
| Dibenzo(a,h)anthracene | Je Ke | O 87 | | | | 300 € | ∩ 00 | 1 00 7 | U 004 |
| Benzo(g,h,i)perylene | Me/Kg | D 92 | | | | 386 | 46 € | 200+ | U 994 |
| TICTORI | A S | 3990 (12 | _ | 13978 (7) | | 4420 (8) | 2450 (9) | 7320 (19) | 5910 (15) |

TC Total

B - the reported who is estimated because it is greater than the Instrument Detection Limit (IDL), but less than the Contract Required Detection Limit(CRDL).

B - the reported who is estimated because it is greater than the Instrument Detection Limit (IDL), but less than the Contract Required Detection Limit(CRDL).

B - compoundelement was also detected in the associated field blank

TR - sample analysis holding time control limits

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IS - instrum standard outside control limits

J - estimated who was also detected in the associated laboratory method blank

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| | Tricing to ensure the period of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the | 5 | 3 5 | | 3 5 | 2 2 | ⊃ = ? ? | 2 2 |) = R S | 320 |
| Hight 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 31U 30U 30U 31U 30U 30U 30U 30U 30U 30U 30U 30U 30U 30 | 1,1,2-Trichloroethane | ! | 2 2 | 2 2 2 | 2 2 2 | 310 | 2 2 | 25.5 | 22 | 22.0 |
| #### 300 310 300 310 300 310 310 310 310 310 | Benzene | Š | ⊃: &: | 31.0 | 36.5 | 316 | D: | 3.5 | ⊃: 8: | 32 0 |
| 2-pertainone jugita 610 620 600 620 610 620 610 620 620 620 620 620 620 620 620 620 62 | rans-1,3-Lichoropene Bromofoem | ¥. | ⊃ = R | 2 2 2 | 2 E | 2 = | 2 E | | 2 2 | 22.6 |
| 167 1177 1177 1177 1177 1177 | 4 - Methyl - 2 - pentanone | | 2 2 | 2 29 | 3 | 2.29 | 3 3 | 2 2 | ? 3 | 3 3 |
| | 2-Hexanone | 18 kg | 0 19 | 62 U | □ 99 | 62.0 | 0 19 | 62 U | D 93 | 23 |
| | Tetrackloroethene | 848 : | 2 5 | 310 | 2 5 | | ⊃ = R \$ |) E | ⊃ = 8 \$ | 32 0 |
| MATER 26 34 130 670 60 44 | Toluene | į | 25.5 | | 8.8 | 019 | 3 | ; \$ | , 82 | 2 2 |
| 11 10 10 10 10 10 10 10 10 10 10 10 10 1 | Chlorobenzene | Š | 2 | מנ | D : | 310 | 2 | 31.0 | 2 | 32.0 |
| 20 310 340 310 340 310 340 310 340 310 340 310 310 310 310 310 310 310 310 310 31 | Ethylbe rizene Stanone | 1 | 2 2 | אנה מיני | D = 5 | E : | ⊃ = S , S |) i | 2 2 | 2 2 2 |
| The control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co | Xyene(Total) | | 2 2 | 2 5 | 2 2 | 310 | 2 2 | 310 | 2 2 | 32.0 |
| | TIC Total | Ž | 000 | (e) (e) | (e) • | (0) 0 | (e) o | 6) | (e) • | 9 |

| Laboratory Sample Number Associated Field QC Samples | | | # # # # # # # # # # # # # # # # # # # | | | | | |
|---------------------------------------------------------|------------------------|--------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|
| Associated Field QC Samples | 13540, 14213 | 13291, 14214 | 13292, 14215 | 14348 | 13293, 14216 | 14349 | 13294, 14217 | 13295, 14218 |
| | FB1-1 | FB1-1 | FB1-1, 2-1 | F82-1 | FB1-1, 2-1 | PB2-1 | 781-1 | 761-1 |
| | | | TB11-3-91 | TB11-6-91 | TB11-3-91 | TB11-6-91 | TB11-3-91 | |
| Parameter Units | Units EB1-1, IA-1, 4-1 | 1 EBI-1, IA-1, 4-1 | EBI-1, 1A-1, 2-1, 4-1 | EB2-1,4-1 | EBI-1, 1A-1, 2-1 | ZBZ-1 | EBI-1, IA-1, 4-1 | EBI-1, IA-1, 4-1 |
| SEMINOLATILE UNUANICS (| (SCW SAN) | | *** | TH 1071 1011 | 967 | Merchanist Ass. | | |
| | _ | | • | (1113)CO OIL | 8 | | | |
| 2 Characterial | | | 2.5 | | 3 8 | | | |
| | | | 2 2 | 1111 X 11 41 4 1 4 1 4 1 4 1 4 1 4 1 4 1 | 3 8 | | | |
| 1,7 - Drawer coerners | | | 200 E(E/T) | 110 VIV | 3 | | | |
| | | | 200 | | 3 | | | |
| 1,2 - Dichorobermene | | | | 410 UJ(BHT) | ₿ \$ | 410 K(EHT) | | |
| 2 - Methylphenol | #8/Kg 400 U | | SKE . | 410 UXEHT | | 410 K(EHT) | | 100 |
| 2,2'-oxybis(1-Cbloropropane) | #8/4g | | 86 | 410 UXEHT | 400 C | 410 R(EHT) | | |
| 4Methylphenol | | | 800 | 410 UXBHT | 700 4 | 410 R(BHT) | | □ 67 |
| N-Mtroso-di - N-propylemine | | | | 410 UXBHT | 400 C | 410 R(EHT) | | 0 627 |
| Hemethoroethane | | | 380 | 410 U KRHT | 7.00 | 410 R/EHT | | 1977 |
| Nitrobergene | | | 365 | 410 U WEHT | 1007 | 410 B(RHT | | 1967 |
| somborone | | | 8 | A10 II VEHT | \$ | A10 B/RHT | | 1007 |
| 2-Missonhand | | | 2 | ATO IL VIDELL | \$ | 416 B/RHT | | 1967 |
| | | | R 8 | | 3 | TIPON OIL | | |
| Z.4 - Dimemyphenor | | | | AND CARRIE | 3 | 410 K(EHI) | _ | |
| bis(2-Chloroetboxy)methane | | | 200 | 410 UXEHT) | \$ | 410 R(EHT) | | 287 |
| 2,4-Dichlorophenol | | | | 410 UXBHT | \$ | 410 R(EHT) | | D 927 |
| 1,2,4-Trichlorobergene | | | 38 | 410 UXBHT | 400 C | 410 R(EHT) | | 287 |
| Naobthalene | | | 380 | 410 UXBHT | 700 4 | 410 R(EHT | | 1 67,4 |
| 4-Chloroenline | | | | 410 UKEHT | 400 C | 410 R/BHT | | 7007 |
| Herachlorobutadiene | | | 96 | 410 UKEHT | 400 C | 410 R/EHT | | 420 [|
| 4-Chloro-3-methylahenol | | | 360 | 410 U.KEHT | 2004 | 410 R/EHT | | 1201 |
| Heracklorocyclopentadiene | | | 86 | 410 UKEHT | 100 4 | 410 R/EHT | | 197 |
| 2.4.6-Trichioembenol | | | 9 | A10 I JYRHT | 11007 | 410 R(F)-T | | 42011 |
| 2-Merhadmanhahana | -1007 | | 5 | 416 ILYRHT | Ş | A10 R/FF/T | | 1 967 |
| 2.4.5. Telephoremberrol | | | | 2000 I WRHT | 5 | CANO BURHT | | |
| 2 Chlomonahahalan | | | . | 41011165 | | | | 1967 |
| | | | | THE POPULATION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY | 8 | THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P | | |
| Dimentral asks the factor | | | | THEN LIGHT | 8 | THE PLEASE | | |
| A constitution | | | 2 5 | THEY SELECT | \$ \$ | | | |
| Acceptation case | | | | | 3 | | | |
| | | | Ř. | | | Ale Keni | | |
| | | | | ZOUD UACHTI | | ZODO K(EHT) | | |
| Acenaphibene | | | | 410 UKEHI | 0.00 | 410 K(EHI | | R. |
| 2,4-Dinitrophend | | | 8 | 2000 UKEHT | 86 1 | 2000 R(EHT) | | 2007 |
| 1-Nitrophenal | | | 961 | 2000 UXEHT) | 9 <u>6</u> | 2000 R(EHT) | | D 0062 |
| Dibersoluran | | | 38 | 410 UXEHT | \$ | 410 R(EHT) | | D 924 |
| 2,4-Dinitrotoluene | | | | 410 UXEHT | D 99 | 410 R(EHT) | | 788 C |
| Diethyl phthalate | | | 380 | 410 UXBHT | \$ | 410 R(EHT | | 180 C |
| 4-Chlorophenyl phenyl ether | | | 390 | 410 UYEHT | 9 | 410 R/EHT | | 420 U |
| Placene | 400 L | | 390 R(EHT) | 410 UYEHT | D 007 | 410 R/BHT | | 1924 |
| 1-Nitrostiline | | | 906 | 2000 UXBHT) | 180 | 2000 R/EHT | | 2000 |
| 4 6-Dinitro-2-methylphenot | | | 1961 | 2000 II VEHT | 8 | 2000 R/FHT | | 1000 |
| N - Mirosodinherademine (1) | | | 5 | AIDIIVEHT | \$ | A10 B(FIFT | | 1967 |
| 4-Promontend phend ether | | | 35 | 410 UKEHT | 9 | 410 R/B/IT | | 1 927 |
| Hemchlombenzene | | | 95. | | Ş | 410 R/CHT | | 187 |
| Pentachloronthenol | | | , and | 2000 II WRITT | Ē | AND BURNE | | I was |
| Phononthrone | | | 2 | A16 11 VRWT | \$ | A10 PCBUT | | |
| Anthropen | 11 007 | 11 A16 B/RHT | | A10 II VEHT | | | | 1007 |
| Carbanale Carbanale | | | | | \$ | THE BUILD | | |
| Al-N-But shahalata | | | | THEY I SE | • | AND DELL'A | | 1967 |
| Maria Dough promessus | | | | | • | | | |

| | Table B-6. Data Presentation: Site 1 - Fire Traini | | g Area – Soll Samples (1991) – 122^{-4} Tactica | | l Repter Wing, Indiana Air National Guard, Pt. Wayne, I | Vational Guard, Pt. W | Vayne, Indiana (Contin | 90 |
|---------------------------------|----------------------------------------------------|------------------|---------------------------------------------------|-------------|---------------------------------------------------------|-----------------------|------------------------|------------------|
| SAIC ID Number | SB1A-1-1 | SB1A-1-2 | SB1A-1-3 | SB1A-1-5 | SB1A-1-5 | SB1A-1-5R | SB1A-2-1 | SB1A-2-2 |
| Laboratory Sample Number | 13290, 14213 | 13291, 14214 | 13292, 14215 | 14348 | 13293, 14216 | 14349 | 13294, 14217 | 13295, 14218 |
| Associated Field QC Samples | FB1-1 | FB1-1 | FB1-1, 2-1 | FB2-1 | FB1-1, 2-1 | FB2-1 | FB1-1 | FB1-1 |
| • | TB11-3-91 | TB11-3-91 | TB11-3-91 | TB11-6-91 | TB11-3-91 | TB11-6-91 | TB11-3-91 | TB11-3-91 |
| Parameter | Units BB1-1, 1A-1, 4-1 | BB1-1, 1A-1, 4-1 | EB1-1, 1A-1, 2-1, 4-1 | EB2-1, 4-1 | EB1-1, 1A-1, 2-1 | EB2-1 | EB1-1, 1A-1, 4-1 | EB1-1, 1A-1, 4-1 |
| SEMIVOLATILE ORGANICS (SOW 3/M) | i_ | | | | | | | |
| (Continued) | 1 | | | | | | | |
| | | 810 XEHT | 43 XEHTO | 410 UXEH | | 410 R(EH | | |
| Butylbenzylphthelate | | 410 R(EH) | n 390 R(EHT) | 410 UXBH | | 410 R(EH | | |
| idine | | 820 R(EHT | | 410 UXBH | | 410 R(EH | | |
| Benzo(a)anthracene | | S10 XEHT | | 410 UXEH | | 410 R(EH | | |
| Chrysene | | S90 XEHT | | 410 UXBH | | 410 R(EH | | |
| bis(2Ethylbenyl jobt balate | | 410 R(BH | _ | 410 UXEH | | 410 R(EH | | |
| 2 | JRg 400 U | 410 R(BHT) | D 390 R(BHT) | 410 UXEH | - 400 U | 410 R(EHT) | | |
| Benzo(b)fluoranthene | | 710 XEHT | | 410 UXEH | | 410 R/EH | | |
| 2 | | THE W 098 | | 410 UXEH | | 410 R/EH | | |
| | | 800 XEHT | | 410 UXBH | | 410 R(EH | | |
| d)pyrene | | 570 XEHT) | | 410 UXBH | | 410 R/EH | | |
| • | JAg +00 U | 410 R(EH | | 410 CT (EH | .E | 410 R(BH | | |
| Benzo(g,h,) perylene | 744 | 700 XEHT | 390 R(BHT) | 410 UX(BHT) | E 480 | 410 R(BH | | 120 U |
| | HE/KE 14480 (29) | 630(2) | 1340 (6) | 4990(15) | 12600 (20) | (61) 02502 | 16760 (18) | |

1440 (a)

B. the reported value is estimated because it is greater than the Instrument Detection Lmit (IDL), but less than the Contract Required Detection Lmik(CRDL)

EHT – extraction bodding time outside control limits

FB – compound/element was also detected in the associated field blank.

HT – extraction bodding time greater than control limit

- extinated value

MB – compound/element was also detected in the associated laboratory method blank

MB – compound/element was also detected in the associated laboratory method blank

MB – extinated value

MB – compound/element was also detected in the associated laboratory method blank

M – extinate also where

RPD – matrix splitschaarit splits duplicate (MSNASD) relative percent differences (RPDs) greater than the control limits

W – nompound/element was included in analysis, but was not detected

W – pool – digastication splits for Chapbite Furnace Alconic Absorption (GFAA) analysis is out of control limits

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|---------------------------------|------------|------------------|------------------|---------------|----------------|----------------|-----------|-------------|----------------|
| SAIC ID NEBBET | | SB1A-2-3 | | SB1A-3-2 | SB1A-3-2DL | SB1A-3-3 | SR1A-3-4 | CRIA-1-4P | 2-1-4-1-C |
| aboratory Sample Number | | 13296, 14219 | 13297, 14220 | 14263, 14273 | 14263, 14273 | 13298, 14221 | 14350 | 14351 | ATCAL 14774 |
| Associated Field QC Samples | | FB1-1 | FB1-1 | FB1-1 | FB1-1 | FB1-1 | FB2-1 | FB2-1 | FRI |
| | | TB11-3-91 | TB11-3-91 | TB-11-05-91 | TB-11-05-91 | TB11-3-91 | TB11-6-91 | TB11-6-91 | TR11-7-01 |
| nabeter | Cale | BB1-1, 1A-1, 4-1 | EB1-1, 1A-1, 4-1 | EB1-1.1A-1 | BB1-1.1A-1 | EB1-1 1A-1 4-1 | FR2-1 | FB2-1 | PR1-1 14-1 1-1 |
| BMIVOLATILE ORGANICS (SOW 3/90) | (SOW 3/NE) | | | | | | | | 1-11-01-1-12 |
| Constituted | 440 | 11 444 | ş | 3 | | • | | | |
| | | 3 | 3 | C | 0 8057 | っま | 4100 | 410 U.(SS) | |
| ydbenzykpistnalate | 121 | 284 | 0.007 | ۲× | 2300 € | ⊃ \$ ₹ | 410 U | SSX O 017 | |
| 3'-Dichlorobenzidine | i k | 7 90 7 | 199 C | ٧x | 2300 U | 386 U | 410 U | 416 U XSSI | |
| Senzo(a)anthracene | # 17 kg | 12 00 1 | 100 C | 4 2 | 2306 U | 380 U | 1007 | 410 UXSS | |
| yeere | 15 Kg | ⊃ 00 ‡ | 7007 | ٧× | 2300 U | 380 U | 410 U | 410 U X SSE | |
| 2 - Ethythenyl Joht halate | ¥¥8 | 1004 | 100T | ₹Z | 2300 U | 380 U | 4100 | SSAU 614 | |
| -N-Octyd phthalate | HOVE | 100 + | 2007 | ₹Z | 230 0 U | 380 U | 410 [| 41011788 | |
| ac(b)fluoranthene | Ž | □ 007 | 999 | ٧z | 2300 U | ⊃ 98 | 410 [| 41017188 | |
| ao(k)fluoreathene | HOVE. | 400 € | 100 7 | ₹Z | 2300 U | 380 | 41011 | SSALIGIA | |
| enzo(a)pyrene | 7 | □ 00+ | 300 J | V Z | 2300 U | 7,00€ | 410 0 | 410 UVSS | |
| eno(1,2,3-ad)pyrene | NO. | ⊃ 00 ‡ | D 994 | ٧x | 230e U | 2000 | 700 | 410 U KSSR) | |
| ermo(a,b)anthracene | #PAG | ⊃ 9 | D 007 | ₹ | 2300 U | 2000 | 4100 | A10 UK | |
| nao(g,hJ)perylene | FFE | 2 | 100t | Y X | 2300 U | 2000 | 7007 | SSXU 017 | |
| Total | MENE | 6340 (14) | 21060 (20) | < × | 29640 (11) | 4796(11) | 7610 (18) | 6240(13) | |

1. The reported value is estimated because it is greater than the inarrument Detection Limit (IDL), but less than the Contract Required Detection Limit(CRDL)

D - the identified compound was analyzed at a secondary dilution factor after exceeding the calibration range of the instrument on the first analysis

FB - compound-lement was also detected in the associated field blank

FR - field replicate relative percent differences (RPDs) outside control limits

J - estimated value

NB - compound-lement was also detected in the associated laboratory method blank

NA - not analyzed

R - specied value

R - expected value

R - expected value

R - expected value

R - expected value

R - expected value

R - expected value

R - expected value

R - expected value

R - expected value

R - expected value

R - expected value

V - compound-denerative value control limits

V - one pound-deferenct was included in analysis, but was not detected

W - post-digesion spike for Grapbite Furrace Atomic Absorption (GFAA) analysis is out of control limits (85 - 115%), while sample a than 50% of the spike absorbance

- duplicate sample analysis outside of control limits

| ACID Number | GWI-1 | OW-1RE | MW1-01 | MW1-02 | |
|----------------------------|-----------|------------------|-------------|--------------|------------|
| aboratory Sample Number | 13300 | 13300RE | 14354 | 14267.142.77 | 14396 |
| succinted Field OC Shaples | 1981-1 | FB1-1 | FB2-1 | FB1-1 | PR2-1 |
| | TB11-3-91 | TB11-3-91 | TB11-6-91 | TB11-05-91 | TB11-7-91 |
| unmeter | EB | EB1-1, 1A-1, 4-1 | EB2-1 | EB1-1, 1A-1 | EB2-1 |
| Aal Petroleum Hydrocarbons | NA Jan | ≨ | PI | 10 | 1 |
| KORGANICS | | | | | |
| ntimony | | Ž | 14.2 J.N.B. | | |
| venic | | ž | 42.4 | | |
| syllium | | ž | 1.8 3(8) | | |
| deine | | ž | 21 | 1.7 JONE B) | |
| Iromium | | Ź | 6.09 | 21.2 | |
|) bber | N. N. | Ş | 3.6 | 30.2 | 75.7 |
| 2 | | ž | \$ | z | 1.8 |
| ercury | | ž | ETH)TO ES | _ | 0.2 UI(HT) |
| okei | | Ź | 172 | | X |
| lenium ienium | | ž | | | I CIEN |
| 1 | | Ş | 2002 | | 2 CEN |
| A librar | | Ź | 101 | 21 | 10 |
| 2 | | ž | 122 | | 212 |

| | | 56 56 56 56 56 56 56 56 56 56 56 56 56 5 | , 33331 | 22222 | 222 22 | 2222 | 2222 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------|------------|----------|---------------|-------------------|--------------------------|--|
| | | ige ige | 33 | 200 | 2 2 | 200 | 200 200 200 200 | |
| | | ethane | 33 | ຂະ | £ £ | 22 | 22 | |
| | | ethene (total) | įį | | 2 | | SC SC | |
| | | cthane | 1 | 2 ° ° | Ž Ž | 5 5 5 5 5 5 | . S . S | |
| | | roethane | ¥. | | ź | | 2: | |
| | | Shicride | 1 | 25 | ≨ ≨ | 25 | 25 | |
| | | Gropane | į | 22 | ≨ ≨ | 25 | 22 | |
| | | loropropene | 3 | SU | ź | os S | 20 | |
| | | | 3 | 20 | Ź | 20 | SC | |
| | | omethane | Ę | 20 | ≨ | SC | 20 | |
| | | roethane | Į. | . | Ž : | 23 | os: | |
| | | 100 | Į. | ⊋: | ≨: | 2: | 25 | |
| NA NA NA NA NA NA NA NA NA NA NA NA NA N | | chicropropene | 3 3 | 22 | źź | 22 | - - | |
| NA NA NA NA NA NA NA NA NA NA NA NA NA N | | - pentanone | 4 | 201 | £ | 200 | 2 | |
| NA NA NA SUU NA SUU NA NA NA SUU NA NA NA NA NA NA NA NA NA NA NA NA NA | | • | Ą | 2 | £ | ⊃ 9 | 200 | |
| NA NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU | | Mene | Ę | os Sc | Ź | 20 | 20 | |
| SC NA NA SU SU SU SU SU SU SU SU SU SU SU SU SU | | hicroethane | Ž | SC | Ź | 20 | SC | |
| NA NA SUU NA NA SUU NA NA SUU NA NA NA SUU NA NA NA SUU NA NA NA SUU NA NA SUU NA NA SUU NA NA SUU NA NA SUU NA NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA SUU NA | A V V V V V V V V V V V V V V V V V V V | | ¥ | SC | Ź | 20 | SC | |
| MA SU SU NA SU SU SU SU SU SU SU SU SU SU SU SU SU | | | Ę | 20 | Ź | 20 | 20 | |
| | * * * * | | Ę | ns: | Ź | ns: | S.C | |
| | X X | | Ž | 2: | ≨: | ⊋; | 25 | |
| | | | Ž. | 2 | ≨: | 25 | 2 2 3 | |

Table B.-7. Data Presentation: Site 1 - Fire Training Area -- Groundwater Samples (1991) 122^{ed} Tactical Fighter Wing, Indiana Air National Guard, Pt. Wayne, Indiana (Continned)

| - | sel Pighter | Wing, Indiana A | 22" Tactical Fighter Wing, Indiana Air National Guard, Pt. Wayne, Indiana (Continued) | Pt. Wayne, Inc | diana (Continued) | |
|---------------------------------------------------|-------------|------------------|---------------------------------------------------------------------------------------|----------------|-----------------------------------------|------------------|
| SAIC ID Number | | CWI-I | GW-IRE | MW1-01 | MW1-02 | 9 |
| Laboratory Sample Number | | 13300 | 13300RE | 14354 | 14267,14277 | 14396 |
| Associated Field OC Samples | | FB1-1 | FB1-1 | FB2-1 | FB1-1 | FB2-1 |
| | ; | | TB11-3-91 | TB11-6-91 | TB11-06-91 | TB11-7-91 |
| | 5 | EBI-1, IA-1, 4-1 | EBI-1, IA-1, 4-1 | E82-1 | EBI-1, IA-1 | EB2-1 |
| Phone Phone Chicago (30) | | (033/04) | 10 D/GCD | - | ======================================= | 11.61 |
| his 2 - Chlomosthalbether | | | | 2 5 | 2 5 | |
| 2-Chimothenol | À | 10 R(SSR) | 10 R/SSR | 2 | 2 2 | 2 5 |
| 1.3-Dichlorobenzene | 1 | 10 R(SSR) | 10 R(SSR) | 200 | 200 | 2 2 |
| 1,4- Dichlorobenzene | Ę | 10 R(SSR) | 10 R/SSR | 7 91 | 001 | 2 2 |
| 1,2-Dichlorobenzene | į | 10 R(SSR) | 10 R/SSR | | 10 U | 2 22 |
| 2 - Methylphenol | Ę | 10 R(SSR) | 10 R(SSR) | □ 01 | ⊃ 9 1 | 201 |
| 2.2" - orgon(1-Chloropropane) | 7 | 10 R(SSR) | 10 R(SSR) | 10 C | D 01 | 200 |
| 4-Methylphenol | Ĭ, | 10 R(SSR) | 10 R(SSR) | 20 € | 20 | |
| N-Nitroso-di-N-propylamine | Ž | 10 R(SSR) | 10 R(SSR) | 20 | 2 | 200 |
| Hemchicroethane | Ž, | 10 R(SSR) | 10 R(SSR) | 2 | 2 | 2 |
| Nirobenzene | Į. | TO R(SSR) | 10 R(SSR) | 2 | 2 | 2 |
| Isophorose | ₹. | 10 K(SSK) | 10 R(SSR) | 9: |); e; | 2 |
| | 1 | TO KOSKO | 10 K(SSK) | | | 2 |
| kid a Chilman make ashe a | | 10 K(SSK) | 10 K(SSK) | | 2 \$ | 2 5 |
| 2.4. Dichlosophood | 1 | 10 E(SED) | 10 K(33K) | 25 | 2 5 | 25 |
| 1.9 4. Thickloops again | | (ASS) 0 41 | (035) G (1 | | 2 | |
| Marchine Land Organic | | | (ASSE) OF COSED | | 25 | |
| 4-Chronoline | | 10 R(SSR) | 10 R/SSB | 2 = | 2 2 | 2 5 |
| Herachlar obutadiene | , i | 10 RCSSR) | 10 R/SSR | 2 | 200 | 2 |
| 4-Chlaro-3-methylphenol | 3 | 10 R(SSR) | 10 R(SSR) | 2 | 200 | 2 |
| Herachicr ocyclopentadiene | 3 | 10 R(SSR) | 10 R(SSR) | 2 01 | O 01 | 200 |
| 2,4,6-Trichlorophenol | Ž | 10 R(SSR) | 10 R(SSR) | | D 01 | D 01 |
| 2 - Methylanphilalene | Ž, | 10 R(SSR) | 10 R(SSR) | | 2 | 2 |
| 2,4,5 - Trichlorophenol | 3 | S K SK | SO R(SSR) | 2 |); 第: | ? : |
| 2-Chicronaphinakme | Į. | IO K(SSK) | IO R(SSR) | | 2: | 2: |
| | 1 | 20 K(35K) | (XXX)X X | 2 2 | 2 2 | 2 S |
| Acetachile number | 1 | 10 R(SSR) | TO RESERVE | 2 5 | | 2 5 |
| 26-Dinitrotohiene | | 10 R/SSR) | 10 R(SSR) | 2 9 | 2 2 | |
| 3-Nitronniline | Į, | SO R(SSR) | S R(SSR) | 8 | 3 | · S |
| Aceraphthene | Ž. | 10 R(SSR) | 10 R(SSR) | | 200 | 10 C |
| 2,4-Dinitrophenol | Į. | S R(SSR) | SO R(SSR) | 8 | ⊃: &: | ⊋: S : |
| Change and an an an an an an an an an an an an an | 3 | (XXX)X (XXX) | N K (SSK) | 2 5 | 2 5 | 2 5 |
| 2 4- Cinima chima | | (desp) a vi | (SEC)OUT | 2 5 | | |
| Diethylphthalate | 1 | 10 R/SSR) | 10 RYSSR) | | | 2 2 |
| 4-Chlarophenyl phenyl ether | ž | 10 R(SSR) | 10 R(SSR) | | D 01 | 200 |
| Plucrene | 7 | 10 R(SSR) | 10 R(SSR) | | O 01 | D 01 |
| 4-Nitronniline | 7 | 50 R(SSR) | 50 R(SSR) | | 200 | ⊃ % |
| 4.6-Dinitro-2-methylphenol | Ž. | S R(SSR) | SO R(SSR) | | ⊃ : & : | ⊃: S: |
| N- Mirosodiphenymene | 3 | 10 K(SSK) | | - • | 2 5 | 2 : |
| Homospher character | | (ACC) A PI | (NCC) NOT | | 2 5 | 2 5 |
| Preschiptorylessol | | (asc) a 9 | CORPORATE OF | 2 5 | ⊋ 5 | 2 5 |
| Phenanthrene | Ę | 10 R(SSR) | 10 RCSSR) | | 200 | 2 2 |
| Anthracene | Ž | 10 R(SSR) | 10 R(SSR) | 2 | 200 | 200 |
| Carteacole | ž | 10 R(SSR) | 10 R(SSR) | 2 | 2 62 | 201 |
| di-N-Butyphthalate | ž | 10 R(SSR) | 10 R(SSR) | 2 | 36 5 | 1 0 C |
| Phonenthene | Ž | 10 R(SSR) | 10 R(55R) | D 01 | 20 | 10 C |

| 96-4 9661 | 1811-7-91 182-1 182-1 19 U 19 U 19 U 19 U 19 U 19 U 19 U 19 | |
|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ter Samples (1991) liana (Costinsed) MW1-02 1466,14277 TTP: FB1-1 | 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U | |
| n - Groundwa Fr. Wayne In MW1-01 1435 FB2-1 TB11-6-91 | 100 100 100 100 100 100 100 100 100 100 | |
| Air National Guard, OW-IRE 13300RE RB1-1 TB11-31-91 | 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) | |
| Table B-7. Data Presentation: Site 1 - Fire Training Area - Groundwater Samples (1991) | 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(SSR) 10 R(S | |
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| SAIC ID Number | | 282-01-01 282-01-01 | SB2-01-02 | 61 - 15-285 1-15-285 | 262-01-19RE | 282-42-61 282-42-61 | 282-63-01 282-63-01 | S82-61-01 |
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| Bertin | | 0.20 (MIS,N) | € ≨ | (x) (x) | \$ \$ | 1.76 J(N) | (N)r Ar ar | (N) 8711 |
| Cadmium | Š | 0.00 | ž | 0.31 J(MB,B) | ≨ | 6 21 U | EAS J(NB) | 6.23 J(MB/B) |
| Chromium | 2 | 8 5 | \$ \$ | 9 : | ≨: | 87 | 8 11 2 | 8: |
| Lead | | 6.20 J(EB) | ₹ ≨ | 7.60 XEB) | € ≨ | 3.70 J(EB) | | 15.60 (*) |
| Mercury | \$ | 200 | Ź | O 602 U | ¥ | | 600 | 0.00 |
| Nickel | 3 | 1.70 J(MB,B) | ≨; | 15.40 J(MB) | ≨: | 1.60 J(MB,B) | 95.5E | 2 1 |
| | | 2001 | € ≨ | 1.10 U | ≨ ≵ | 120 DW | 12.0 CM | # 1 5 CW |
| Thellive | 3 | 4.20 UW | Ź | 6.30 J(B) | ž | 0.21 U | (5.77.2(B) | 6.56 J(B) |
| Zinc | 7 | 6.90 J(PB) | ž | 288.60 | ≨ | 460 J(FB) | 64.90 J(FB) | 44.56 J(FB) |
| VOLATILE ORGANIC COMPOUNDS | SOA | | | | | | | |
| Chloromethene | 3 | ⊃: =: | 200 | 13 UJ(SSR, IS) | 13 UJ(SSR) | 1 | ם ב | ⊃ \$₹ |
| Bromomethane | Š |) = : | 25 | 13 UJ(SSR.IS) | 13 UJ(SSR) | : | <u>=</u> : |) 9 |
| Chicagos | | ======================================= | 300 | 13 (1) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3 | | | 2 = |) = 7 7 |
| Mathylene Chloride | 1 | S.U. | 3 | S | 21 UJ(TB/SR) | E n | 16 U(TB) | e z |
| Actions | Ž | ם: D: | D 62 | 13 UJ(SSR, IS) | 13 UJ(SSR) | n II | R | 928 |
| Carbon Disultide | 1 | 25 | 9 | • UJ(SSR,IS) | (MS)(1) | 2: | 3: | 2 : R : |
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| 1,2-Dichlaroethere (total) | | s o | 29 | (UKSKES) | | 2.5 | 2.5 | 2 |
| Chloroform | 3 | o S | 3 | 6 UJ(SSR,IS) | (MS)(n) | S C | S | 2 2 |
| 1,2-Dichleroethane | Ž. | D: | 2 | 4 UJ(SSR, IS) | 403(58) | ne : | ລເ | 0.1 |
| 2-Butanone 111-Thickinschaus | Š | 25 | 26 | 13 UJ(SSR, IS) | 13 UJ(SER) | 25 | 25 | ⊃ : % |
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| Vinyl Actate | 3 | מנ | USI | 13 UJ(SSR, IS) | 13 UJ(SSR.IS) | ווֹמ | กแ | . 3 |
| Brossodiethor omethane | 1 | 25 | 9; | 6 UJ(SR.IS) | (C)(SS(S)) | 25 | | ⊃: & 1 |
| i,t-Denorapropere cis-1,3-Dichlorograpere | | 2 2 | 2 3 | (S) (S) (S) (S) (S) (S) (S) (S) (S) (S) | (3) (3) (3) (3) (3) (3) (3) (3) (3) (3) | 25 | 25 | |
| Trichlaroethene | 3 | 2.5 | 3 | • UJ(SSR, IS) | 6 UJ(SSR,IS) | | S.S. | 2.2 |
| Dibrosochioromethane | Ş. | ⊋: |) (1) | 6 UX(SSR, IS) | 6 UJ(SSR, IS) | 25 | 2 | |
| i, i.c ir schotoetimise Benzene | | 2 | • | 4 (1)(SEC.15) | 4 (1)(SE(.D.) | 25 | 25 | |
| trans-1,3-Dichloropropene | Ş | SU | 0.9 | 6 UJ(SSR, IS) | 6 UJ(SSR, IS) | 2.5 | S C | |
| Bromoform | Š | ⊃ : | n • ; | 6U(SSR.IS) | (U)(SSP, IS) | ⊋; | S : | 25. |
| 2 - Hermone | | 2 = | 3 2 | 13 (A) (A) (A) (A) (A) (A) (A) (A) (A) (A) | (3, 20, (3, 2)) | 2 2 | 2= | |
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| 1,1,22-Tetrachioroethane | Š | 25 | 29 | • | 6 UJ(SSR, IS) | ns: | 20 | n ez |
| Total | \$ | 36 U(rB) | 8.0.4 (8.0.48) | - | 240 J(35K, IS) | 25 | 15 U(FB) | . |
| Ethylbensene | 1 | 2.5 | · <u>*</u> | (U)(SR. IS) | (UXSELS) | 22 | 2.5 | 3.3 |
| Syrene | Ş | SU | 19 | 6 UJ(SSR. IS) | € UJ(SSR.IS) | ns: | ns. | |
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| 1,23-Trictacropropene | | 2 2 | 300 | 13 UKSR. IS) | 13 UKSR. IS) | 2 2 | | 2 3 R 58 |
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| Laboratory Sample Number | 90021804 | 9 | 90021805 | 90812006 | 3021806RE | 10:27006 | 90022302 | 10-15-79S |
| Associated Fleid QC Samples | FB-01,-02 | E | 3-01,-02 | FB-01,-02 | FB-01,-02 | FB-01,-02 | FB-01,-02 | FB-01,-02 |
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| SELIVOY ATTITE OF CANIC COLLECTIONS | ZBOUNDS EW-03-04 | E | -88- | EW-03,-04 | EW-03-94 | EW-03,-04,-05 | EW-63,-04,-65 | EW-03,-04,-05 |
| Phenot | | J(SSR) | Ş | 410 U | * | 360 U | 360 U | 386 U |
| bia(2-Chloroethyl)ether | 350 U. | J(SSR) | ž | 410 U | ¥ | 360 U | 260 € | 380 U |
| 2-Chlorophenol | | | ≨: | 100 | ≨: | 360 | 360 U | 1980 1 |
| 1,3 = Detactoenzene 1,4 = Dichlerobenzene | | | \$ \$ | | ≨ ≵ | 0.000 | 0.000 | |
| Benzyl Alcohol | | | ≨ | 100 | ₹ ≨ | 38 | 2 2 | 38 |
| 1,2-Dichlorobenzene | | (S) | ≨: | 10 C | ≨: | 360 | 360 | 300 C |
| 2 - weton prema bir(2 - Chlorojaceroon be ber | 20 U | | ≨ ≴ | 1917 | ≨ ≵ | 3 S | ⊋ 5 | |
| 4-Methylphenol | | J(88R) | ş | D 014 | ≨ | 360 | 2 2 2 | |
| N-Nitroso-di-N-propylamine | | | ≨: | D 017 | ≨: | 36 | 36 | D 98 |
| Nitrobenzene | | | € ₹ | | £ 2 | | | |
| Lophorone | | SA, IS) | ₹ | | ≨ ≨ | 200 | | |
| 2-Nitrophenol | | J(SSR, IS) | ş | 410 U | Ž | 360 U | | 200 |
| 2,4-Dimethylphenol Renzolo Acid | 350 U | (SE) (SE) (SE) (SE) | \$ \$ | 7 410 U | \$ \$ | D 25 | 8 | ⊃ : 8 |
| bis(2-Chloroethony) methane | • | | € ≱ | 21017 | € ₹ | 1976 | | |
| 24-Dictionophenol | | J(SSR. IS) | ź | 100 100 100 100 100 100 100 100 100 100 | € ≨ | 198 | | |
| 1,2,4-Trichlorobenzene | 10 OSE 350 U. | J(SSR, IS) | Ş | 70C | Ź | 360 U | | 2 2 2 |
| Naptibalene | | J(SSR,IS) | ≨: | D 017 | ≨: | 360 U | 360 | ⊃: 98: |
| Horselfootstadios | | (S, K, IS) | žź | 7007 | ≨ \$ | 0.00 | 200 | ⊃: 8 :3 |
| 4-Charo-3-metrylebenol | 350 U. | 1(SER. IS) | £,\$ | 1014 | ≨ ≨ | 11 975 | | |
| 2-Methylnaphthalene | | J(SSR, IS) | ş | 0.017 | ≨ | 200 | 2 98 | |
| Herachlorocyclopentadiene | | J(SSR) | Ź | 10 C | ¥ | 360 U | 360 | 0.000 |
| 2,4,6—Trichlorophenol | | | ≨: | 200 | ≨: | 360 | ⊃ 98. | D 686 |
| 2,4,5 - If icid or updenos | 1,000 1,000 U. | | \$ \$ | 0.000 | ≨ ≩ | 1800 U | 1900 U | ⊃ : 88. |
| 2-Nitrogniline | - | J(SSR) | € ≨ | 2000 | ≨ ≨ | 19081 | | |
| Dimethyl Phthalate | | J(SSR) | ž | 410 C | ≨ | 360 U | 360 U | 200 |
| Acenaphthylene | A8/48 350 U. | J(88R) | ž | 10 C | ¥: | D 096 | 360 | ∩ 06 € |
| 2,6 - Lymitotoivene 3 - Nimaniliae | • | | \$ | 410 C | ≨ ≩ | | 2 : 2 : | 2 2 2 3 3 3 4 |
| Acenaphibene | 350 (1) | | £≨ | 410 17 | € ≥ | 2 98 | | |
| 24-Dinitroppenol | | J(SSR.) | ž | 2000 U | Ź | U 0081 | 1900 U | D 0061 |
| 4 - Nitrophenol | _ | | ≨≨ | 2000 1 | ≨ ≩ | D 6081 | 2 8 8 8 | ⊇ : 86: |
| 24-Dinitrotoluene | | | € ≨ | 1000 | ₹ ≨ | 3.98 | 2 S | |
| Diethyl Phthalate | | J(SSR) | ž | 410 U | ≨ | 360 U | 360 U | |
| 4 Chlor opbenyl phenyl Ether Bluceson | 350 U | | ≨: | 70C | ≨: | 98.5 | ⊃ : 98 : |) |
| 4-Nitropolitoe | - | | ₹ \$ | 2000 | ₹ ₹ | 1 000 | 20001 | 2 |
| 4,6-Dinitro-2-methylphenol | | (<u>8</u> | Ź | 2000 U | ≨ | 1909 I | 19061 | D 0061 |
| N-Nitrosodiphemylamine | | (SE) | ≨: | 700 | ≨: | 360 U | | D 986 |
| Hexachlorobenzene | 45/45 46/46 350 U. | | ž ž | 2 5 | £ \$ | | 3 5 |) = B() |
| Pertachiorophenol | _ | J(SSR) | ź | 2000 C | ≨ | D 0081 | | 19061 |
| Phenanthrene | | | ≨: | 7.01 | ≨: | 200 | | D 996 |
| A-N-Burdahalate | 46/kg 350 U. | (SE) | \$ * | 25 | S S | | | |
| Fluoranthene | | J(SSR, IS) | ş | 700 | ź | 200 | | 3 |
| Pyrene | | J(SSR, IS) | ş | 410 C | ş | 260 | | O 000 |
| Butylbenzyl Phthalate | | (SR, IS) | ź: | 100 | ≨ : | ⊇ ; 3 . į | | D 300 C |
| Benzo(a)anthracene | 380 | (SR, IS) | ź | 4 5 C | ₹ | 28.8 | 2 3 | |
| Chylene | | (SE) | ≨: | 2. D. | ≨: |) 98 | | 0 98. |
| on the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the Says of the | | | žź | | ≨ ₹ | ⊋ 5 | | |
| Benzo(b)flucranthene | 3000 | (SR, IS) | ≨ | 4 5 C | ≨ | 28 | | |
| Benzo(k) fluoraribene | | J(SSR.IS) | \$: | 10 C | ≨: | 38 | | |
| Benzo(a)pyrena Indeno(1,2,3c.d)pyrena | 350 05 | | \$ \$ | 790 | ≨ ≨ | 2 3 | | ⊃ : 2 , 3 |
| Dibenzo(a,b)antiracene | |)(SSR, IS) | ź | 450 C | ≨ | 38 | | |
| Benzo(g, b.i)perytene | 350 U. | J(888,15) | Ź | 410 U | ¥ | 366 U | 340 U | 388 U |
| | | | | | | | | |

Table B-8. Data Presentation: Site 3 - Hazardous Waste Collection Area - Soil Samples (1990) 122nd Tactical Pighter Wing, Indiana Air National Guard, Pt. Wayne, Indiana (Continued)

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| about the Comple Manher | | 10 = 10 = 70c | 70 10 75K | 20 - 10 - 20C | S CONTO COMP | 10120-705 | 00000 | TOTAL TOTAL |
| Account Study County | | FR-01 -02 | FB-01-07 | FIR _ 01 _ 02 | FR-01-02 | FR-01-07 | 20CT-01 | FR -01 -02 |
| | | Œ | | 18-18-18-18-18-18-18-18-18-18-18-18-18-1 | | 2 - A-1 | | \$ - E |
| Parameter Unks 1 | Units EW- | -W-03-W | EW-03-04 | EW-03,-04 | EW-03,-04 | EW-03-04-05 | EW-63,-64,-65 | EW-03-04-05 |
| SEMINOLATILE ORGANIC CON | POUNDS | | | | | | | |
| N - Niconadiana Indonina | 4 | 1300/11/0001 | ** | 11 mor | ** | II wat | 11 0001 | |
| 2-Picoline | | 1700 (11(588)) | 5 ₹ | D 0002 | ₹ ≨ | 19091 | 2000 | |
| Methyl Methanesulfonate | ğ | 1700 UJ(SSR) | ≨ | 2000 U | ž | 1800 U | 1900 | 288 |
| Ethyl Methaneaulfonate | Ž | 1700 UJ(SSR) | Ź | J 0002 | ≨ | U 0081 | D 0081 | D 9061 |
| Aniline | Ž | 1700 UJ(SSR) | Ź | D 000Z | ≨ | 1800 U | 1800 U | 1900 U |
| Acetaphenane | Ą | 1700 UJ(SSR) | ≨: | 2000 [| ≨; | 1900 U | D 000 | D 0061 |
| N-Nitroacpiperidine | \$. | 1700 (50%) | 2 : | 000 | ≨ ; | 0.0001 | 1900 I | D 0061 |
| James Bylpbened Bylamine | 3 . | (XX)(XX) | ≨; | 0.000 | ≨: | 0.000 | | 0 0061 |
| Z-Dichiorophenoi | Š. | | ≨: | 2000 | £ : | 200 | | |
| N - Nitrogo - GI - N - Outylatting | 1 | | Ž 2 | 0.000 | £ 2 | 0.000 | | |
| Lange of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the second contraction of the secon | | (ASS)(1) (MC) | £ 2 | 11 9000 | \$ \$ 2 | 2 0001 | | |
| Pertachinghenzene | | 1300 1110001 | £ 2 | 7000 | 5 ≵ | | | |
| -Nachthylamine | 1 | 1700 (358) | ź | 2000 | ž | 1800 | 1900 | D 3061 |
| - Naohthylamine | , a | 1700 UJ(SSR) | ź | 2000 | ž | U 0081 | 1989 | U 0001 |
| 1.2 - Diobern/bydrazine | ğ | 1700 UJ(55R) | Ź | 2000 | ž | 1900 | D 0081 | D 9061 |
| Phenacetin | 1 | 1700 UJ(SSR) | ž | 2000 | ¥ | U 0001 | U 0001 | 19001 |
| 4-Aminobiphenyl | Ž | 1700 UJ(SSR) | ≨ | D 0002 | Ź | 1800 U | 300FL | 1906 U |
| Pronamide | ş | 1700 UJ(SSR) | Ź | Z000 U | Ş | 1900 U | ∩ 0081 | 1900 U |
| Benzidine | Ž | 170 UJ(88) | ≨: | 2000 | ≨: | 0001 | D 000 | D 8061 |
| p-Lymethylaminoszobenzene | ¥. | TAB CI(SK) | ≨: | 0000 | ¥: | 0.0081 | | 0.0061 |
| 7,12 – Dimetbylbenzo(a)anthracene 1 – Markatologias brook | 3 : | | ≨ \$ | | ≨ ≨ | | | |
| Tic Total | į | N. | . ≨ | ž | ≨ | ş | ź | 2 ≥ |
| | • | | | | | | | |
| ORGANOCHLORING PESTICIDES/PCB. | SACE. | | ; | | ; | | • | |
| Mpra-Bric | Ž. | | <u></u> | | ≨ ≨ | | 9: | XX)(0.5) |
| server BUC disdood | 1 | (AS)(1) (C) | £ 2 | 11 (000) | 5 3 | | | 111/000 |
| delta - BHC | | 23 (1)(588) | 5 ≴ | 2.8 (1)(558) | ≨ ≨ | 240 | 23 11 | 24 (1)(588 |
| Heprachion | 3 | 23 UJ(SSR) | Ź | 28 (1)(558) | ź | 240 | 230 | 24 UJSS |
| Aidrin | \$ | 24 UJ(SSR) | ≨ | 29 UJ(SSR) | ≨ | U 2.5 U | 240 | 26 UJ(SSR |
| Heptachlor Eponide | ş | 2.1 UJ(SSR) | ž | 26 UJ(SSR) | ≨ ∶ | 230 | 22 U | 23 UJ(SSR |
| Endosulfan-I | Ž. | 21 UJ(SSR) | ≨: | 26 (1)(558) | ≨: | 230 | 77 C | 2.3 UJ(SSR) |
| Delana 1. Dog | 3 | 21 CJ(SSK) | X : | 25 UJ(88) | \$ 3 | 077 | 210 | XXIII 27 |
| 4 - 1000 | Ž | (388)(1) (7 | \$ \$ | 2.01(000) | \$ * | 77 | 7 | (Mass) [1 F 1 |
| Productifien. II | | 77 11(50) | ₹ 2 | 1111000 | 2 | = 60 | 186 | |
| CC-DDD | | 23 UJ(SSR) | ź | 2.8 (1)(558) | Ź | 240 | 230 | 24 UJ (SSR |
| Endrin Aldehyde | Š | 27 UJ(SSR) | ž | 33 (1)(SSR) | ž | 29 U | | 29 UJ(SSR |
| Endosultan Sulfate | Ž | 28 UJ(SSR) | ž | 3.4 UJ(SSR) | ž | 300 | 767 | 3.0 UJ(SSR |
| Kr-DDT | 15% | 6.7 UJ(SSR) | ž | &3 UJ(SSR) | ≨: | 72.0 | 7.0 U | 73.03(50 |
| Methanychlor | Ž. | 84 UJ(SSR) | ž: | ide UJ(SSR) | ≨: | 0.00 | U 14 | 9-1 UXSSR |
| Character | Ž: | 17.0 CJ(SSK) | £ 2 | 21.0 UJ(SSK) | ≨ 2 | 1800 | 17.00 | MC UJ(MC |
| Arcelor - 1016 | | (ARC) (C) (ARC) | 5 ₹ | (ASS)(1) (ASS) | 2 | 1022 | | SOUTH OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE P |
| Araclar - 1221 | 2 | 84.0 UJ(SSR) | ž | 1000 (1)(588) | ž | 100 | 0.078 | 91.0 UKSSR |
| Arcelor - 1232 | Ž | 84.0 UJ(SSR) | ž | 100.0 UJ(SSR.) | ž | D 006 | U 0.78 | 91.0 UJ(SSR |
| Arcelor - 1242 | ş | 84.0 UJ(SSR.) | ž | 100.0 UJ(SSR) | ş | 940 U | 0.078 | 91.0 UJ(SSR |
| Aroclor - 1248 | \$ | 67.0 UJ(SSR) | Ź | 83.0 UJ(SSR) | ş | 720 U | 700% | ASSXU O.C. |
| Aroclor - 1254 Hg/g | Š | 42.0 UJ(SSR) | ¥ | 52.0 UJ(SSR) | Ş | 45.0 U | O 07+ | 44.0 UJ(SSR |
| rocka-1260 | ne/re | X CONTROL | ž | 41.9 UJ(SSR) | ≨ | 20% | | X O LINCO |

D - compoundatement was also detected in the associated fleid blank.

Re - field replicate relative percent differences (RPDs) outside control limbs

HT - started enables bettered in the associated fleid blank.

Re - field replicate relative percent differences (RPDs) outside control limbs

1 - estimated value

MB - compoundatement was also detected in the associated isboratory method blank.

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Table B.-9. Data Presentation: Site 3 -Hazardous Waste Collection Area -- Groundwater Samples (1990)
122nd Tactical Fighter Wing, Indiana Air National Guard,
Pt. Warne, Indiana

| PARTY - 01 | 90024902 | FB-01, -02, -03 | TB-10 EW-04-07-08 | 10 | | 1.00 U | 6.30 J(B) | 282 | 13.00 U | 22 60 J (B) | 1196.0 | 12.00 U | 3.00 UW | 180 | 24.00 J(PB) | | 2 5 | | 10 C | 5 U(18) | | 36 | 200 | os Os | De ş | 52 | ב ה ק | 220 | D\$ | ns S | D 5 | 25. | | 2 2 | מפ | 220 | S S S | 200 | D 201 | | 5 3 | 2 | 9 9. 9 D D |) <u>1</u> | 28 | Š. |
|--------------------|--------------------------|-----------------------------|----------------------|------------------------------|--------|----------|-----------|------------|----------|--------------------|---------|---------|----------|-----|-------------|----------------------------|-----------|----------------|--------------|--------------------|------------------|-------------------|----------------------------------------------------|------------|----------------------------------|-----------------------|----------------------|----------------------------------------|---------------------|-----------------|----------------------------------------------|---------|----------|------------|-------------------|---------|-------------------------------|----------|-----------------------------------------|----|------------|-----------|-------------------------------------------------|-----------------------------------------------|------------------------|-----------|
| Pt. Wayne, Indiana | | | Units | To Be | | ¥ | 1 | ₹ ₹ | Ş | 1 | | Ę | Ž. | | 15 | SQN | 1 | 1 | 4 | | 1 | ₹. | įį | 1 | Ę | 1 1 | 1 | įį | 3 | 1 | 7 | 3 | ₹. ₹. | 1 2 | 4 | 1 | | 1 | 1 | Į. | 1 4 | \$ | | 3 | 3 | 3 |
| SATC ID Number | Laboratory Sample Number | Associated Field QC Samples | Parameter | Total Petroleum Hydrocarbons | METALS | Artimony | Arrenic | Cadmium | Chromium | Copper | Mercury | Nickel | Selentum | | Zinc | VOLATILE ORGANIC COMPOUNDS | Goodsthan | Vinyl Chloride | Chloroethane | Acatona Acatona | Carbon Disulfide | 1,1—Dichkroethene | 1,1 - Dicherosthane 1,2 - Dicherosthene (retal) | Chloroform | 1,2—Dichloroethane 2—Rutanone | 1,1,1—Trichicroethane | Carbon Tetrachloride | Vinys receive Bromodichlor omethene | 1,2-Dichloropropane | Trichlaroathene | Dibromochioromethane 1.1.2Trichloroathane | Benzene | | 2-Heranone | Tetrachicroethene | Tolvene | Chlorobe mene Ethylbenzene | Syrene | Total Xylenes 2—Chloroethal Viral Biber | 9 | Acreen | - | 1,2,3 — Irichoropropane 1,4 — Dichlorobutane | Bithyl Methacrylate Trichlorofluorymethece | Dictionalfluoromethane | INC. 1888 |

Table B.-9. Data Presentation: Site 3 -Hazardous Waste Collection Area -- Orosadwaler Samples (1990)
122nd Tactical Fighter Wing, Indiana Air National Guard,
Ft. Wayne, Indiana (Continued)

| 8 | 10-2007 | FB-01,-62,-63 | EW-04,-67,-08 | | 2 2 | D 92 | | 2 2 | 25 | n: | 2 5 | 12 | 25 | 2 2 | D : | | 2 2 2 2 | Ξ | | 28 | _ | = = | | = | = : | 5 E 5 | 22 | 2: | 22 | 21 | :: ₹ \$ | 200 | 2: | | | | | | | | | | | | | | | 22 | | | | _ |
|-----------------------------|--------------------------------------------|----------------------------|-----------------|-------------------|----------------------------------|------------|-----|---------------------------------------|---------------------|----------------|----------------|-----------------------|------------------|-----------|---------------|--------------------|-------------------------|--------------------|------------------------|----------------|---------------------|----------------------|--------------------------|-----------------------|-------------------------|----------------|--------------------|----------------|----------------|---------------|-----------------|-------------|-------------------|----------------------------|----------|----------------------|------------------------|---------------------------------------------|-------------------|-------------|--------------------|--------------|--------|---------------------------|-----|--------|---------------------|---------------------|-----------------------|----------------------|--------------------------|----------------------|
| Pt. Wayne, Indiana (Continu | | . 3 | Unks | UNICCOMPOUNDS | 1 | 1 | 4 | | Ę | | | and the same | 1 | 11 | 3 | | 194 194 | 3 | | | 1 | 7 | | 1 | 1 | | | 1 | 1 | Į. | | 3 | - | the state | | | 3 | | | 2 | | Į. | | | 3 | | | 1 | ₹. | | | 76 |
| 1 | SAIC ID Number Leboratory Semple Number | Associated Field QC Sample | Parameter Units | SEMINOLATILE ORCA | there bla(2-Chlaroethat)ether | derophenol | 3 3 | 1,4~Uncaparocenaene Benavi Alcohol | 1,2-Diethorobenzene | 2-Methylphenol | 4-Methylobenol | N-Nitroso-di-N-propyl | Henethlorosthane | hopborose | 2-Nitrophenol | 2,4-Dimethylphenol | bla(2—Chlorothany)metha | 2.4-Dichlorophenol | 1,2,4—Tricklorobenzene | 4-Oldrosolline | Heracklorobutadiene | 4-Charo-3-methylphen | Hemethoroactoness adless | 2,4,6-Trichlorophenal | 24.5 - Trietskorophenol | 2-Witnessiline | Dimethyl Phehalate | Accomplishment | 3-Nitrospitine | Acementations | 4-Limitrophenol | Dibersohran | 2.4-Dinkrotoluene | 4-Charophenyi - phenyi Eth | Plucrene | 46-Dintro-2-Beliefeb | N-Nitrosodiphenylemine | 4-Brosophenyl -phenyl E. Henchlombensene | Pertachiorophenol | Phenothrepe | 6-N-Butybotthelace | Plucranthene | Pyrene | 3.3 - Dictricrobe naidine | (e) | Chyese | A - N - Ord Printer | Benac(b)Ducranthene | Benso(k) fluoranthene | Indentity 3 Commence | Dibertac(a,b)serthracene | Denac(g.b.) perylene |

| Table E-9. Data Presentation: Site 3 - Hazardous Waste Collection Area - Groundwater Samples (1996) 122 nd Tactical Fighter Wing, Indiana Air National Guard, |
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| inued) | 20677006 | FB-01,-02,-03 | EW-64,-07,-06 | | 3 |) D | 200 | 200 |) :: ?: 5 | 28 | D 95 | 2 E | 2 | 30.0 | ⊃: S: | ⊃ :: ₹ \$ | : S | 0.05 |) S | ? 5 | 3 | 25 | ? ₹ | | 4.05 UJ(SSR.) | a.es UJ(SSR) | 6.65 (U.S.R.) | 0.05 (Max.) | aes UJ(SSR) | 4.05 UJ(SSK) | 4.16 UJ(SSR) | G. 10 UJ(SSR.) | 6.10 UJ(35K) | 4.16 UJ(SSR.) | 0.10 UJ(SSR) | C. 10 US(SEK) | 0.25 UJ(SSR) | a.d. (U)(SSR) | 2.00 (11/59R) | 250 UJ(95R) | 2.50 UJ(SSR) | 2.00 (1)(SSE) | 1.30 UJ(95R) | 1.00 UJ(SSR) | then the instrument Detection ection (Imb(CRDI) | ated field blank | | | | To the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the | acod trip blank | c Absorption (GPAA) analysis | THE CHARLES GROWN CONTINUES IN THE CALLS OF THE | |
|--------------------------------|--------------------------|-----------------------------|-----------------|---------------------|-----------------------|------------|-------------------------|-----------------------|---------------------|--------------------|-------------------------|------------------------|---|---------------------|--------------------|-------------------|------------------------|------|-----------------|------------|---------------------------|-----------------------------|-------------------------------|-------------------------------|---------------|--------------|-----------------------|-------------|-------------|----------------------------------|--------------|----------------|--------------|---------------|-----------------|---------------|--------------|---------------|----------------|--------------|----------------|----------------|--------------|--------------|-------------------------------------------------------------|---------------------------------------------------|-----------------|---|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------|-------------------------------------------------|--|
| Pt. Wayne, Indiana (Continued) | | | Units | CCOMPOUNDS | ueA. | | 1 | 3 | | | \$ | | | | 1 | | | 1 | 1 | | 3 | cene | | | ς - | 3 | 1 | 1 | 1 | | | 1 | | | 1 | | | 3 . | | | \$ | | 3 | Test. | sated because K is grouter a Contract Required Det | relement was also detected in the amociated field | į | | | ary outside control limits schided in enabels but an | 8 | 4 | | |
| Pt. W. | Laboratory Sample Number | Associated Field QC Samples | Parameter Units | SEMINOLATTLE ORGANI | N-Nitrondinethylamine | 2-Picoline | Methyl Methamenulfonate | Ethyl Methanenifonate | Actorbeons | N-Nitrospiperidine | Directlylphenetlylamine | N-Mission A-N-handesin | • | 1-Chloronaphthalene | Pertachlorobenzene | 1 - Naphrbylamine | 1.2-Diobeneilardrazine | | 4 Aminobipbenyl | Renzidire | p-Dimethylaminoszobenzene | 7,12-Dimethytbenzo(a)anthra | 3-metayonamarene TIC Total | Sacionada anta de misconto de | alpha-BHC | beta-BHC | gamma — BHC (Lindane) | Heptachor | , | Heptachlor Eponide Redomifica | Dietarin | 44-DDE | Bodraisfan∏ | 44-DDD | Botrin Aldehyde | 44-DDT | Methorsehior | Chlordane | Arcelor - 1016 | Arodor -1221 | Arcelor - 1232 | Arcelor - 1245 | Arcelor-1254 | Arcdor-1260 | B = the reported value is estimated because the contract is | FB - compound/element was | J CRIMING VAING | Ļ | R - rejected value | National Section of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of t | - compound/element w | W - post -dipestion spike for Grapt | | |

Table E-10. Data Presentation: Site 3 - Hazardous Waste Collection Area - Soil Samples (1991)

| Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colo | SAIC ID Number | | SB3-1-1 SB3-1-6 SB3-1-9 SB3-2-1 | SB3-1-6 | SB3-1-9 | SB3-2-1 | SB3-2-2 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------|---------------------------------|--------------|----------------------|----------------------|--------------|
| Complete | | | 13109, 13114 | 13175, 13183 | 13109, 13114 | 13174, 13182 | 13173, 13181 |
| Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocateboas Thirdrocat | Associated Field OC Samples | | FB4-1 | FB4-1 | FB4-1 | FB4-1 | FB4-1 |
| Producestrons | • | | TB10-30-91 | TB10-31-91 | TB10-31-91 | TB10-31-91 | TB10-31-91 |
| ## Processions mights 7700 50U 50U 50U 50U 50U 50U 50U 50U 50U 5 | Parameter | Cnits | FB3-1,4-1 | FB3-1,4-1 | FB3-1,4-1 | FB3-1,4-1 | FB3-1,4-1 |
| Mark | Oil And Grease Total Petroleum Hydrocarbons | mg/kg mg/kg | 7300 7700 | 20 S C C | 20 SS | D 88 | 2 S |
| Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market M | | 1 | | | | | |
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| The color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the | Arsenic | mg/kg mo/ke | 3.8 U3(I4) 12.8 J(N) | S.1 J(N) | 5.9 (N) 5.9 J(N) | 4.8 J(N) | 3.9 I/N) |
| 18.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) 15.1(FB) | Beryllium | mg/kg | 0.34 J(B) | 0.56 J(B) | 024 J(B) | 0.58 J(B) | 0.81 J(B) |
| 10 | Cadmium | mg/kg | 1.8 J(FB) | 2 J(FB) | 1.5 J(FB) | 2 J(FB) | 2.7 |
| | Chromium | mg/kg | 7.6 | 18.3 | 6.5 | 15.3 | 23.1 |
| Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market M | Copper | mg/kg | 29.5 | 23.9 | 18 | 18.1 | 24.3 |
| | Lead | mg/kg | 11.3 R(N) | 8.5 R(N) | S.8 R(N) | 13.5 R(N) | 3.6 R(N) |
| Markey Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Col | Mercury | mg/kg | 0.06 U | 0.06 U | 0.06 U 26 U 27 | 0.06 U | 0.06 U |
| ### 10 10 10 10 10 10 10 1 | | mg/kg | 24.1 | 31.9 | | 21.9 | ¥.04 |
| ### 10 (23 U/(4)) 0.33 U/(4)) 0.32 U/(4)) ### 11 | Science | Ing/Kg | 021 UJ(N) | (N)TO 673 | | (N)(N) 0.23 UJ(N) | (N)(N) |
| ### 10 | Theffina | S T T | 0.49 U | 0.32 U | | 0.32 U | 0.30 0 |
| DRGANICS (SOW 3/90) PROTANICS (SOW 3/90) PROTANICS (SOW 3/90) PROTANICS (SOW 3/90) PROTECTION 111 | Zinc | E SA SE | 75.7 | 63.1 | | 61.4 | 642 642 |
| 10 12 11 10 15 10 10 10 10 10 | VOLATII R OBGANICS (SO | 100/2 / | | | | | |
| 11 12 11 11 12 11 11 12 11 11 12 13 13 | Chloromethane | we/ke | 11 U | 12 U | 11 0 | | 200 |
| 11 12 13 15 15 15 15 15 15 15 | Bromomethane | ne/ke | n II | 12 U | 0 11 | | חוו |
| right 11 U 12 U 11 U 12 U 11 U 15 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U 10 U <t< th=""><td>Vinyl Chloride</td><th>He/kg</th><td>חוו</td><td>12 U</td><td>מו</td><td>19.0</td><td>חום</td></t<> | Vinyl Chloride | He/kg | חוו | 12 U | מו | 19.0 | חום |
| oride | Chloroethane | #6/kg | 11 0 | 12 U | n n | 10 U | 110 |
| thene | Methylene Chloride | HEYKE | n 9 | Ω9 | n, | o s | Ω9 |
| | Acetone | mg/kg |) !! | 12 U |); ; | 25 |); (|
| thane (Total) | Carcon Dawlide | HE/KB | 2; |); • |); • |) |); |
| thene (Total) | 1,1 - Dichloroethene | A SAC | 2 4 | 2 2 | 0 5 | 25 | 9 4 |
| thane | 12-Dichloroethere (Total) | | 2 5 | 2 4 | 2 4 | 2.5 | 2 |
| thane | Chloroform | is/ke | 2.9 | 29 | 2 3 | 20,5 | 29 |
| 11 12 11 11 12 11 12 13 14 15 15 15 15 15 15 15 | 1.2-Dichloroethane | Me/Ke | 29 | 29 | 0.9 | 200 | Ω9 |
| octhane µg/kg 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U 6U | 2-Butanone | Fore | 11 U | 12 U | 11 0 | 10 U | חמ |
| Moride | 1,1,1-Trichloroethane | HEYE | Ω9 | 0.9 | Ω9 | S U | Ω9 |
| Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation Designation | Carbon Tetrachloride | FEAS | n 9 | n 9 |)) | SU | 09 |
| Popular | Bromodichloromethane | HE/KE |); (|); 9 | D ; | S.C |); (|
| Motoproper Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market | 1,2—Denoropropane | FERE | 2 4 | 2 4 | 25 | | |
| Machane | Trichloroethene | See of the see | 2 9 | | 2 9 | | |
| sethane Market 6 U 6 U 6 U 6 U 6 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U 6 U | Dibromochloromethane | e Ve | Ω9 | 19 | 29 | 20 | 119 |
| Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest Highest High | 1,1,2-Trichloroethane | HE/KE | 0.9 | n 9 | 29 | os S | 29 |
| Moropropene µg/kg 6U 6U 6U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U 5U | Benzene | He/Kg | Ω9 | 0.9 | Ω9 | SU | Ω9 |
| Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pentanone Pent | tram-1,3-Dichloropropene | HEAR | Ω9 | Ω9 | Ω9 | SU | Ω9 |
| Pentanone Perka 11 U 12 U 11 U 10 | Bromoform | HEARE | 0 9 | 29 | 0.9 | s o | n 9 |
| tene | 4-Methyl-2-pentanone | HEYE | בו בו | 12 U | ב ב | 20 | 2 |
| hidrocethane | 2-Hexanone | E A |) ii | 12.0 | 0 II C | 0 OI |) ii |
| ###################################### | 1 1 2 2 - Tetrachlorogebane | | 2 4 | 2 4 | 2 5 | 2 5 | 0.4 |
| HEAT 60 0 00 0 00 00 00 00 00 00 00 00 00 00 | Tolugae | 200 | | 2 4 | | 2 5 | |
| HE/RE 6U 6U 6U 6U 5 HE/RE 6U 6U 6U 6U 5 HE/RE 6U 6U 6U 6U 5 | Chlorobenzene | | 29 | 29 | 2 | 2.0 | 29 |
| Hefte 6U 6U 6U 6U 5 Hefte 6U 6U 6U 5 Hefte 0(0) 0(0) 0(0) 0 | Ethylbenzene | He/Kg | Ω9 | Ω9 | Ω9 | N S | Ω9 |
| μεγκε 6 U 6 U 6 U 5 μεγκε 0 (0) 0 (0) 0 (0) 0 | Styrene | F/Kg | Ω9 | Ω9 | Ω9 | S U | Ω9 |
| Hg/kg 0 (0) 0 (0) 0 (0) 0 | Xylene(Total) | mg/kg | Ω9 | Ω9 | 29 | s o | n 9 |
| | TICTotal | Hg/kg | (O) O | 000 | (O) 0 | (e) 0 | (9) |

Table E-10. Data Presentation: Site 3 - Hazardous Waste Collection Area - Soil Samples (1991) 122nd Tactical Fighter Wing. Indiana Air National Guard. Ft. Wayne. Indiana (Continued)

| - 1 | ol Fighter Wing | Indiana Air | National Guard | Ft. Wayne, Ind | 122" Tactical Fighter Wing, Indiana Air National Guard, Ft. Wayne, Indiana (Continued) | ļ |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|-----------------------|-----------------------|----------------------------------------------------------------------------------------|---------------------|
| SAIC ID Number | SBS | SB3-1-1 | SB3-1-6 | SB3-1-9 | SB3-2-1 | |
| Laboratory Sample Number Accordated Field Of Samples | 13109, | 13109, 13114 FR4-1 | 13175, 13183 FRA-1 | 13176, 13184 PB4-1 | 13174, 13182 PB4_1 | 13173, 13181 PB4 |
| | TB10-30-91 | 16-0E | TB10-31-91 | TB10-31-91 | TB10-31-91 | TB10-31-91 |
| Parameter | | 1,4-1 | EB3-1, 4-1 | EB3-1.4-1 | EB3-1.4-1 | EB3-1, 4-1 |
| SEMIVOLATILE ORGANICS (SOW 3/90) | _ | i i | | | | |
| Phenol | Hg/kg | 360 UJ(EHT) | 390 U | 370 U | 340 U | 370 U |
| bis(2-Chloroethyl)ether | Hg/kg | 360 UJ(EHT) | 300 C | 370 U | ⊃ 98 | 370 U |
| 2-Chlorophenol | Hg/kg | 360 UJ(EHT) | 300 C | 370 U | 340 0 | 370 U |
| 1,5 - Dicklorobelizene | HEVK. | 26 CJ(EHT) | 2000 | 280 | | 370 U |
| 12. Dichloroberrene | #24g | 360 C2(ER1) | 200 | 3/0 0 | | 2000 |
| 2-Methylphenol | | SE CENTY | 36.0 | 270 1 | | 270 11 |
| 22'-oxybis(1-Chloropropane) | a yan | 360 UJ(EHT) | 11 066 | 11028 | | 3365 |
| 4-Methybead | ue/ke | 360 UJ(EHT) | 380 | 370 17 | 2 2 | 3000 |
| N-Nitrogo-di-N-propylamine | HE/KE | 360 UJ(EHT) | | 370 U | 3.05 | 370 11 |
| Herachloroethane | HS/Kg | 360 UJ(EHT) | 390 | 370 U | 340 | 370 C |
| Nitrobenzene | HEAR | 360 UJ(EHT) | 380 | 370 U | 340 C | 370 U |
| Isophorone | HE/KB | 360 UJ(EHT) | 380 | 370 U | 340 € | 370 U |
| 2-Nitrophenol | Hg/kg | 360 UJ(EHT) | | 370 U | 340 C | 370 U |
| 2,4-Dimethylphenol | Hg/kg | 360 UJ(EHT) | | 370 U | ⊃0% 340 C | 370 U |
| bis(2-Chloroethoxy)methane | SASH HEVE | 360 UJ(EHT) | | 370 U | ⊃ 0¥6 | 370 U |
| 2,4 - Dichlorophenol | #g/kg | 360 UJ(EHT) | | 370 U | ⊃ 9 8 0 | 370 U |
| 1,2,4 Trichlorobenzene | HB/KB | 360 UJ(EHT) | | 370 0 | 360 | 370 U |
| Napatealene | HE/KB | 360 UJ(EHT) | 3000 | 370 U | 200 | 370 U |
| Transfer and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s | HØK8 | 360 UJ(EHI) | | 3200 | | 370 0 |
| A. Chica - 2 | HOKE | 360 UJ(EHI) | | 200 | 2 : | 3.00 |
| Herechlorocyclonestsdiene | | SO CERT) | | 2000 | 200 | 200.5 |
| 2.4.6-Trichlorophenol | me/kg | 360 UJ(EHT) | | 370 17 | | 370 1 |
| 2-Methylnaphthalene | Mg/kg | 360 UJ(EHT) | 380 | 370 U | 340 C | 370 U |
| 2,4,5-Trichloorophenol | HE/KB | 1800 UJ(EHT) | | 1800 U | 1700 U | 1800 U |
| 2-Chloronaphthalene | Hg/kg | 360 UJ(EHT) | 330 U | 370 U | 340 U | 370 U |
| 2-Nitrospiline | HEYE | 1800 UJ(EHT) | D 0061 | 1800 U | 1700 U | D 0081 |
| Dimethyl phthalate | HB/KB | 360 UJ(EHT) | 330 | 370 | 340 C | 3300 |
| Acenaphthylene | #8/kg | 360 UJ(EHT) | 380 | 370 U | 340 1 | 370 U |
| 2,0-Dinitololuene | HS/Kg | 360 UJ(EHT) | ∩ 06E | 370 U | 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : | 3300 |
| Acessabilian | ESTE STE | 260 UJ(ERI) | 2006 | | | 2000 |
| 2.4 - Dinitrophenol | no/ke | 1800 (U/EHT) | 1 000 | 1800 | 100% | 2008 |
| 4-Nitrophenol | HR/RR | 1800 UJ(EHT) | 1900 | 1800 C | 1700 U | 1800 U |
| Dibenzofuran | HEVE | 360 UJ(EHT) | 390 U | 370 U | 340 C | 370 U |
| 2,4-Dinitrotoluene | HEVE | 360 UJ(EHT) | 330 C | 370 U | 340 C | 370 U |
| Diethyl phthalate | HØKB | 360 UJ(EHT) | 380 | 370 U | 340 C | 370 U |
| Electrical party ciner | FEX 6 | 260 UJ(EH1) | D 26 € | 320 | | 370 U |
| 4 - Narosanias | # PA PA | 1800 UN(EHT) | 1000 | 380 | 1 000 | 3/00 |
| 4.6-Distro-2-methylphesol | 94.6 | 1800 CITCHEN | | | | |
| N-Nitrocodiphenylamine (1) | HE/KE | 360 UJ(EHT) | 3800 | 3300 | 200 | 370 U |
| 4-Bromophenyl phenyl ether | #g/kg | 360 UJ(EHT) | 390 C | 370 U | 340 C | 376 U |
| Hexachlorobenzene | HEVE | 360 UJ(EHT) | 390 U | 370 U | 340 C | 370 U |
| Pentachlorophenol | #P/s | | 1900 U | 1800 U | 1700 U | 1800 U |
| Phenanthrene | FØ. | 360 UJ(EHT) | 390 C | 370 U | 320 | 370 U |
| Authracene | 16/4 1 | 360 UJ(EHT) | 380 | 330 | 2000 | 3300 |
| Cardazore | FOXE | 360 CJ(EHI) | ⊃ : 26 26 27 | 320 | | 26 |
| | | 360 UJ(EHI) | ⊃ :: 266 66 | 380 | |) |
| | | W (1111) | 2 5 | > 25 | 3 | 2 2 2 |

Table B-10. Data Presentation: Site 3 - Hazardous Waste Collection Area - Soil Samples (1991) 122nd Tactical Fighter Wing, Indiana Air National Guard, Ft. Wayne, Indiana (Continued)

| 13176, 13184 13174, 13182 13173, 13182 13173, 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 13184-1 | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------|---------------------|------------------------|---------------------|--------------|
| | Laboratory Samule Number | | 12100 12114 | 12176 12102 | 70101 70101 | COO | 7-7-636 |
| | A THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE | | 13107, 13114 | 13173, 13183 | 13176, 13184 | 13174, 13182 | 13173, 13181 |
| | Associated Field OC Samples | | FB4-1 | FB4-1 | 7B4-1 | FB4-1 | PR4-1 |
| | | | TB10-30-91 | TB10-31-91 | TB10-31-91 | TB10-31-01 | TR10-31-01 |
| | Parameter | Units | | EB3-1, 4-1 | EB3-1 4-1 | F.R3-1 4-1 | HB2-1 4-1 |
| | SEMIVOLATILE ORGANIC | (06/E /AOS) S | | | | | 1 4 1 |
| | | | | | | | |
| | Pyrene | ue/ke | 360 UJ/RHTD | 390 11 | 170 11 | 3 | 11 056 |
| | | - | T. 1076 | 11 002 | | 3 | 00/6 |
| | 2.25 - 10.25 - 10.25 | | See Colemi) | 286 | 0 0/5 | 0 075 | 370 U |
| | 3,3 - Licinoroceizique | MG/Kg | 360 CJ(EHT) | 386 | 320 C | 340 C | 370 [] |
| | | Mg/kg | 360 UJ(EHT) | 390 U | 370 11 | 95 | 11 962 |
| | Chrysene | ue/ke | WO UNEHT | 1005 | 11 00.2 | 240 11 | |
| | dher | 9 | 2400 I/EITE | 11 600 | | 3 | 200 |
| | H N Out a total | 20. | 2400 3(EH1) | 386 | 3200 | 7407 | 370 U |
| | G-N-Cay principle | HE/KE | 360 UJ(EHT) | 380 | 370 U | 340 U | 11 022 |
| | Benzo(b)fluoranthene | ue/kg | 360 UJÆHT | 300 13 | 17075 | 5 | |
| | Benzo(k)fluoranthene | a Voit | 240 III/BUT | 200 | | | 200 |
| | D | • | (LEG1) | O PKS | 250 | | 370 0 |
| | penzo(a)pyrene | E K | 360 UJ(EHT) | 388 | 3200 | 360 | 370 U |
| | Indeno(1,2,3-cd)pyrene | Mg/kg | 360 UJ(EHT) | 300 C | 370 U | 3 | 11 022 |
| | Dibenzo(a,h)anthracene | Mg/Kg | 360 UJÆHTÍ | 390 1 | 430 11 | 25.5 | |
| | Benzo(g.h.i)nerviene | 110/60 | 340 III(BUT) | 200 11 | 3 9 6 7 | | 2000 |
| | TO Take | 9. | (1 Ha) 60 000 | O Re | 200 | | |
| | 10.10 | W.S. | 6720 (11) | 4000 (16) | 11070 (20) | 34640 (20) | 28410 (20) |
| EHT — extraction holding time outside control limits FB — compound/element was also detected in the associated field blank J — estimated value N — spiked sample recovery outside of control limits NA — not analyzed R — rejected value U — common and value | D - the reported value is estimated to the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section | 1 because it is g | reater than the Ingrument | Detection Limit (II | OL), but less than the | Contract Required I | Actection |
| Fig. 1. Control for the cutsion control limits F. H. Compound defendent was also detected in the associated field blank J. estimated value N. spiked sample recovery outside of control limits N. spiked sample recovery outside of control limits N. rejected value U. control was included in analyzing | HUT - outresite helding time | 11.0 | | | | | |
| FB — compoundelement was also detected in the associated field blank J — estimated value N — spiked sample recovery outside of coatrol limits NA — not analyzed R — rejected value U — compoundelement was included in analyzed | CALL CALLECTION HOLDING LIME OF | | 25.5 | | | | |
| J - estimated value N - spiked sample recovery outside of control limits NA - not analyzed R - rejected value U - control object was included in analyzed U - control object was included in analyzed | rs - compound/element was also | detected in the | associated field blank | | | | |
| N - spiked sample recovery outside of control limits NA - not analyzed R - rejected value U - control delement was included in analyzed | J - estimated value | | | | | | |
| NA — set analyzed R — rejected value U — compound(element was included in analyze is but was not detected.) | N - spiked sample recovery outsid | e of control lim | <u> </u> | | | | |
| R - rejected value U - commonund/element was included in another is but was not determined. | NA - not analyzed | | 1 | | | | |
| U commonwide/generat was included in another is that was not determined. | R - painting under | | | | | | |
| U compound/element was included in another this was not determined | יי ובלמיונה אשונה | | | | | | |
| | U ~ compound/element was included | led in analysis 1 | unt was and detertant | | | | |

Table B-11. Data Presentation: Site 3 —
Hazardous Waste Collection Area — Groundwater Samples (1991)
122nd Tactical Fighter Wing, Indiana Air National Guard,
Ft. Wayne, Indiana

| | Ft. Wayne, Indiana | diana | Mun oth |
|------------------------------------------------|--------------------|-----------|------------------|
| | | 10-74W | 73671 710-7MW |
| Laboratory Sample Number | | 14333 | 14330 |
| Associated Field QC Samples | • | ris2-1 | r62-1 |
| | | 16-0-1191 | 16-0-1191 |
| raranda | Cans | | EB2-1 |
| Oil And Greate Total Petroleum Hudrocerbone | | 2 = | |
| | | • | 2 |
| INORGANICS | 1 | | |
| Astimosy | To T | (X) (X) | |
| Arsenic | TOT | 24.8 | 23.3 |
| Beryllium | | 1.8 J(B) | (8)f S.1 |
| | | 9 | - S |
| Carobium | 1 | 2 2 | 7 67 |
| l sead | | 74 | <u> </u> |
| Mercury | | 02 U | 02 U |
| Nicke | 1 | 76.8 | 68.4 |
| Selenium | 1 | | 1 W(N) |
| Säver | Į, | 2 UJ(N) | 7 |
| Thallium | 787 | MO 1 2. | 1 UW |
| 2487 | 184 | | 9 |
| VOLATILE ORGANICS (SOW 3/90) | V 3/90) | | |
| Chloromethane | F. | D 01 | |
| Bromomethane | 7 | D 91 | D : |
| Viny Chloride | | 2 5 | 2 : |
| Mathidane Obloside | | | |
| Acetone | | 0.01 | 10 U |
| Carbon Disulfide | 1 | SU | S U |
| 1,1 - Dichloroethene | Hg/L | SU | SU |
| 1,1 - Dichloroethane | Total | o : | D : |
| 1,2—Dichloroethene (Total) | | 2 5 | 25 |
| 1.2—Dichloroethane | 1/611 | | 2.5 |
| 2-Butanone | J J | 0 OC | 200 |
| 1,1,1-Trichloroethane | 7/84 | S U | S U |
| Carbon Tetrachloride | 1, 9 1, | 2.5 |) : |
| 52 - Pari prometane | | 2 5 |) |
| cis - 1.3 - Dichloropene | | 2 2 | 2.5 |
| Trichloroethene | 19 | SU | S U |
| Dibromochloromethane | To. | | 5 |
| 1,1,2—Trichloroethane | 7 | 2: | 25 |
| Benzene Press - 12 - Parlices acces | 1 | | 2 5 |
| Bromoform | | | 22 |
| 4-Methyl-2-nentanone | | | 2 01 |
| 2-Hermone | 1 | 0 00 | 200 |
| Tetrachloroethene | 1 | S U | ΩS |
| 1,1,22-Tetrachloroethane | H. |) (| 0 S |
| Toluene | 19 | | 205 |
| Chlorobenzene | 3 5 | 25 |) |
| System | | 200 | 2 2 |
| Xylene(Total) | 1 | o s | SC |
| TIC Total | T T | (e) • | 0)0 |

Table B-11. Data Presentation: Site 3 Hazardous Waste Collection Area - Groundwater Samples (1991)
122nd Tactical Fighter Wing, Indiana Air National Guard,
Ft. Wayne, Indiana (Continued)

| FI. W | , rodiana | ayne, Indiana (Continued) | |
|-------------------------------------------|--------------|---------------------------|-------------|
| | | MW2-01 | MW2-01R |
| Laboratory Sample Number | | 14355 | 14356 |
| Associated Field QC Samples | | FB2-1 | FB21 |
| | 4 | TB11-6-91 | TB11-6-91 |
| SKMIWOI ATTI R ORGANICS (SOW | (06/2/30) | CD4-1 | 1-7G2 |
| Phenol | He'L | 10 U | 10 U |
| bis(2-Chloroethyl)ether | HO! | D 01 | D 01 |
| 2-Chlorophenol | He L | | 10 C |
| 1,3 - Dichlorobenzene | FOL | | |
| 1,4 - Dichlorobenzene | 1 | | |
| 1,2 - Lichiorobenzone 2 - Mathidatoria | 1 5 | 25 | |
| 2.2" enthin(1-Chloropopese) | | | |
| 4-Methybeaol | 1 | | |
| N-Nitroto-di-N-propylamine | 1 | _ | |
| Hexichloroethane | Ę | | 10 U |
| Nitrobenzene | 10 | | |
| Isophorone | 3 | 2: | 2: |
| 2 A - Dinehalphan | | 2 5 | |
| bis(2-Chloroethory)methane | | | |
| 2,4 - Dichlorophen of | 101 | 10 01 | 201 |
| 1,2,4-Trichlorobenzene | HØ1 | D 01 | |
| Naphthalene | 181 | | D 01 |
| 4-Chlorosailine | 16 /1 | | |
| Hetachlorobutadene | 7 | 2: | 2: |
| Carrollonal Jones Jim | | 25 | 2 5 |
| 2.4.6.—Trichlorophenol | | | |
| 2-Methylasobibalese | | | |
| 2,4.5-Trichlorophenol | 1 | | 2 8 8 |
| 2-Chloronaphthalene | 7 | 200 | D 01 |
| 2-Niroangine | 7 | | nos |
| Dimethyl phthalate | Į, | | D : |
| Accaphibytene | 3 5 | 2 5 | 25 |
| A-Nitronalise | | | |
| Acenaphthene | 19 | | 200 |
| 2,4-Dinitrophenol | Ę | ⊃ 0S | D 0% |
| 4 - Nitrophenol | F | | |
| Diberzofaran 24 Militari | 3 | 2: | 2 : |
| Diethyl phthalate | | | 200 |
| 4-Chloropheny pheny ether | 1 | | |
| Fluorene | 19 | | 10 U |
| トーンボアの名は場合の | 7 | | |
| 4,6-Dinitro-2-methyphenol | 3 | | |
| A - Researched there a the | 1 | 2 5 | |
| Herschlorchensene | | | |
| Pentachlorophesol | | | |
| Phenanthrene | 7 | | 100 |
| Anthracene | Ž | | |
| Carbazole | 1 | | |
| G-N-Buty phthalate | | 25 | 25 |
| ri not saturene |) | 2 | |

Table E-11. Data Presentation: Site 3 — Hazardous Waste Collection Area — Groundwater Samples (1991) 122nd Tactical Fighter Wing, Indiana Air National Guard, Ft. Wayne. Indiana (Continued)

| WALCHE NEEDER | | MW2-01 | MW2-01R |
|----------------------------------|------------|-----------|-----------|
| Laboratory Sample Number | | 14355 | 14356 |
| Associated Pield QC Samples | | FB2-1 | PB2-1 |
| • | L | TB11-6-91 | TB11-6-91 |
| Parameter | Units | EB2-1 | EB2-1 |
| SBMI VOLATILE ORGANICS (SOW 399) | (SOW 3/90) | | |
| (Continued) | • | | |
| Pyrene | H#/L | D 02 | 10 U |
| Butylbenzylphthalate | T/en | 10 OI | D 01 |
| 3,3'-Dichlorobenzidine | T/Gen | 10 C | 10 01 |
| Benzo(a)anthracene | T/an | D 91 | 100 |
| Chrysene | T/an | D 01 | 200 |
| bis (2 - Ethylacryl) phthalate | T T | 10 U | D 01 |
| di-N-Octyl phthalate | 7/84 | 10 OI | 10 C |
| Benzo(b)fluoranthene | T/an | 10 U | 10 U |
| Benzo(k)fluoranthen: | T/am | 10 U | 10 U |
| Benzo(a)pyrene | 1/01 | D 01 | 10 U |
| Indeno(1,2,3-cd)pyrene | HOL | D 01 | D 01 |
| Dibenzo(a,h)anthracene | T/MH | 10 C | D 01 |
| Benzo(g,h,i)perylene | Ī | 2000 | 10 U |
| 10.101 | 7 | | |

B—the reported value is estimated because it is greater than the Instrument Detection Limit (IDL), but less than the Contract Required Detection Limit(CRDL)

J—estimated value

MB—compound/element was also detected in the associated laboratory method blank

MB—compound/element was lacluded in analysis, but was not detected

U—compound/element was included in analysis, but was not detected

W—post—digestion spike for Graphiae Purnace Alonic Alsorption (GPAA) analysis is out of control limits (85—115%), while sample absorbance is less than 50% of the spike absorbance

| Colored Company Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Colored Co | The control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co | | | -01-01 SB4-01-01 SB4-01- | 20-10-105 | SE4-42-01 | SB4-02-02 | SB4-05-01 | SB4-00-02 | SE4-64-01 | SB4-04-02 |
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| Comparison | | romium | 20 | 2.70 | | 21.60 | 22.30 | 25.30 | 26.30 | 13.10 | 14.98 |
| | Comparison | bec | 2 | 24.80 | ฆ. | 88 | 23.60 | 8. 31 8. 31 | 88 | 16.80 | 31.30 |
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B—the reported value is estimated because it is greater than the instrument Detection Limit (IDL), but less than the Contract Required Detection Limit(CRDL)

FB—compoundelement was also detected in the associated field blank

I — sample analysis bolding time greater than control limit

I — sample analysis bolding time greater than control limit

MB—compoundelement was also detected in the associated laboratory method blank

MB—compoundelement was also detected in the associated laboratory method blank

MB—compoundelement was included in analysis, but was not detected

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| Units EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -05 EW-01, -04, -04, -04, -04, -04, -04, -04, -04 | Laboratory Sample Number | | 90022312 | 90022313 | 90022402 | 90022403 |
| Units EW-Cit, -Od, -Od, -Od, -Od, -Od, -Od, -Od, -Od | Assertated the amples | | | 79-07 78-05 | 75-07 TB-06 | 78-06 T8-66 |
| ### 199.4(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1) 1.00 1/(1 | Parameter | Cate | -03,-04-05 | W-03-04-05 | EW-63,-65 | EW-03,-65 |
| 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 | Total Petroleum Hydrocarbons | 200 | (IH)(MI | (HI) | (HI) (HI) | (H1) |
| #### 100 (100 (100 (100 (100 (100 (100 (| METALS | 4 | (N)C OV V | (N) Q 90 9 | (2)0110 | (N) Q CI V |
| #### 12.3 (B) 1.50 ##### 12.3 (BB) 1.50 ##### 12.3 (ABB B) 2.3 (ABB B) 2.3 (ABB B) ################################# | Amenic | 9 | 280 J(N) | 2.80 J.(X.) | 11.00 JCR) | (N) 35. |
| ### 0.17 U 0.23 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 20.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10.2 (ABB.B) 200 U 10 | Beryllium | 1 | 0.25 J(B) | 1.60 | 1.7 | 700 |
| 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Cadmium | | 0.17 U | 6.28 J(MB,B) | 0.22 J(MB,B) | 0.35 J(MB.B |
| #### 11.00 10.00 U | Conser | | 04.5 01.30 | 27.50 | 8. 16 8. 16 | 28.50 10.20 |
| #### 622 (1/46) 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U | Lead | Ž | 11.00 | 10.80 | 13.80 | 30.40 |
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| 11.00 UW | Nickel Celentium | | 9.20 J(MB) | 28.60 | 33.70 | 2 <u>4</u> 10 |
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| | VOLATILE ORGANIC COMP | SONOC | | | | |
| | Chloromethane | P. | \$: | ≨; | ≨; | ž |
| | Man Charles | | \$ * | € ₹ | E Z | \$ \$ |
| | Chloroethane | į | ≨ | ž | ž | ž |
| | Methylene Chloride | 15 | \$: | ≨: | ≨: | ≨; |
| | Acadon Carbon Dissilida | 1 | \$ \$ | ₹ 2 | ≨ ≵ | ≨ ≵ |
| | 1,1-Dichteroethene | [§ | ž | Ş | ź | ž |
| | 1,1-Dichloroethane | P. | ≨ : | ≨: | \$: | Ž: |
| | Chlordorn | | € ≨ | ₹ | \$ \$ | ≨≨ |
| | 1,2-Dichloroethane | 3 | ≨ | ž | ş | Ź |
| | 2-Butanone | Š | ¥: | \$ \$ | ≨; | ž |
| | i, i, i = ir kandosumie Cerbon Terrechloride | | € × | \$ \$ | € ≵ | ≨ |
| | Vinyl Aceate | 1 | ž | Ş | ž | ž |
| | Bromodichic omethene | Ş | ž | ≨: | ≨; | ≨: |
| | 1,2-LNCHGropropane | Š | 4 2 | ≨ | \$ \$ | ₹ 2 |
| | Trichlarocthene | 1 | Ç X | ≨ | ₹ | ź |
| | Dibromochioromethane | 168 | ¥. | ž | ¥ | ¥: |
| | 1, 1,2—Tricbioroethane Renzene | 1678 | ₹ ₹ | ₹ ≵ | \$ \$ | \$ \$ |
| | tram-1,3-Dichlaropropene | 1 | ź | ≨ | ź | ž |
| | Bromoform | ž. | ≨: | ≨: | ≨: | \$: |
| | 4-Metayr-2-pentanone 2-Heranone | į | ₹ | ≨ ≥ | \$ \$ | ₹ ₹ |
| | Tetrachloroethene | T T | ≨ | ž | ≨ | ź |
| | 1,1,2,2-Tetrachloroethane | Į. | ¥: | ž | ž | ¥. |
| | Toluene | Ž. | Ž : | ≨ ≩ | ž | \$ |
| | Card openitions Extra benzene | | \$ \$ | žž | ≨ ≨ | ≨ <u>≨</u> |
| | Syrene | 1 | Ź | ž | ≨ : | ž |
| | Total Xylenes | 1 | ≨ ż | ≨ 3 | ≨ ≩ | žź |
| | Iodom ethane | 1 | ≨≨ | ≨ | ₹ | ₹ ≨ |
| | Acrolein | 15.0 | ¥ | ¥ | ž | ž |
| | Acylonkrile | 5 | ≨ 2 | Ž 2 | ≨ ≨ | ₹ ₹ |
| | 1,2,3-Trichicropropane | į | € ≨ | ≨ | ź | ź |
| | 1,4-Dichlorobutane | 201 | ≨: | Ž: | ž | ž |
| | Ethyl Methacrylate | 5 | ≨ 3 | ≨ ≩ | ≨ ≩ | ≨\$ |
| | Dichlorodifluctomethere | | Ę X | ≦ ≵ | ₹ ₹ | \$ \$ |

Table B-12. Data Prosentation: Site 4 - POL Spill Area - Soil and Sodiment Samples (1990)
122nd Tactical Fighter Wing, Indiana Air National Guard Ft. Wayne, Indiana (Continued)

| SAIC ID Number | SB4-05-01 | S84-66-02 | 10-100 10-100 | 20-1CS |
|-------------------------------------------------------|-----------|-----------------------|-----------------------------------------|----------------------|
| Laboratory Sample Number | 21622305 | \$16223006 | 90022402 | 90022403 |
| Associated Field QC Samples | FB-01,-02 | FB-01,-02 | FB-01,-02 | FB-61,-02 |
| Parameter | TB-65 | 78-63 - 10- 10- MH | 26 - 28 - 28 - 28 - 28 - 28 | 20- 12- AP |
| SEMIVOLATILE ORGANIC COMPOUNDS | | | 2 0 | |
| Phenol | | | D 057 | 1987 1 |
| bis(2-Chloroethyl)ether | | | D 45 | ⊃ : § { |
| 13.DeMontenzese | | | 2 2 | |
| 1,4-Dichlorobenzene | | | D 957 | 2 |
| Benzyl Alcohol | | | ⊃: Ş | ⊃ : 8 : |
| 1,4 - Denotobelizene 2 - Metholopenol | | | | |
| big(2-Chloroleopropy) at her | | | 0.007 | 200 |
| 4-Methylphenol | | | 200 | 28. |
| N-Nitroso-di-N-propylazzine | | | 2 5 | ⊃ : Ş Ş |
| Nitrobenzene | | | 3 | 3 |
| Isopharone | | | D 007 | D 60 |
| 2-Nitropbenot | | 8 5 | ⊃ : Ş | ⊃ : Ş : |
| 2,4-1,4metnyfpoenol Renocic Acid | | • | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | |
| big2-Chloroethomy)methane | | 380 | D 957 | 0.83 |
| 24-Dichlorophenol | | * | D 65 | D 63 |
| 1,2,4—Trichlorobenzene Nameralene | | | 8 8 |) = () () |
| 4-Choroaniline | | *** | 3 | \$ |
| | | | D 957 | ⊃: \$ |
| 4-Choro-3-Bethyppenol | | |) = 3 | 5 5 |
| Herechanoschoensadiene | | | 2 | 2 |
| 2.46-Trichlorophenol | | | 2 | 2 |
| 2.45-Trichtarophenol | | | 2812 | 2007 |
| 2-Nimeniline | | | 2180 | |
| Dimethyl Phthalace | | | 787 | 780 |
| Acmaphibylene | | | 2 2 | 3 |
| 2.e-Lyndroduene 3-Nimenilie | | | 3 2 | |
| Acenaphthene | | | 2 2 | 200 |
| 2,4-Dinkraphenol | | | 21 60 U | 2000 U |
| 4-Nitrophenol Dibenzofiszen | | | 212 | |
| 24-Dinkrotoluene | | | 3 | 3 |
| Diethyl Phibalate | | | 2 | 2 |
| A-Cad opporty - preny Einer | | | 33 | 3 |
| 4-Nitroeniline | | | 2140 U | 7 200 C |
| 4.6-Dinkro-2-methylphenol | | | | 2 |
| A - Nucleon promy amore 4 - Bromonhem4 - pheny Ether | | | 3 | |
| Hetachkorobenzene | | S | ⊃ 85 | 0.83 |
| Pertachiorophenol | | | 286 | |
| Adhrene | | 3 | 3 | 2 |
| di -N-Butyiptahalase | | 3 | 2007 | 0.60 |
| Fluxanthene | | | ⊃ : Ş { | ⊃: 8 € |
| Butvillenard Pathalate | | 3 | 3 | |
| 3,3"-Dichlorobenzialine | | 2 | 3 | 0.00 |
| Benzo(a)anthracene | | | 2 5 | > = 5 5 |
| bin(2-Ethythexyi)ptehalate | | | 3 | 8 |
| di -N-Octyl Pichalate | | ** | 2 | 2 |
| Berno(b) fluoranthene | | | 3 5 |) = 5 |
| Benna(L) How millens Benna(L) parene | | F A | 3 |) 5 |
| Indeno(1,2,3 -c,d)pyrene | | | 200 | 5 |
| Decembe (a, b) and traceme Reman(a, b, i beardene | | | | |
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|------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Samples (| a (Continue |
| ad Sedimen | 't. Wayne, Indiana (|
| a – Soil a | al Guard, Pt. Wa |
| Table B-12. Data Presentation: Site 4 - POL Spill Area - Soil and Sediment Samples (1990 | 122nd Tactical Fighter Wing, Indiana Air National Guard, F |
| n: Site 4 - | L Indiana Ai |
| Presentation | thter Wing. |
| 3-12. Data | d Tactical Fi |
| Table | 122 nd Tactica |

| | | 384-63-01 | 20 - C0 - PSS | SD4-01 | 25-428 25-428 |
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| American Hield Of Semales | | FR-01-02 | FR-01-02 | FR_01 -02 | FB-61-67 |
| | | 10-01 10-01 | 78-02 78-05 | 76-E- | 18-87 18-87 |
| Personal | Units EW | EW-03,-04,-05 | EW-03-04-65 | EW-60,-65 | EW-63-65 |
| EMIVOLATILE ORGANIC COMPOUNDS | APOUNDS | | | | |
| Continued) | | | ; | | |
| i – Nitrosodimetbylamine | ¥. | 96. | D: 000 | | |
| -ricoine | 3 | | 0.000 | | |
| West by Methanesull Charles | 200 | | 0.0001 | O 8017 | |
| Antibe | 1 | 130 | 1 0081 | | |
| Lostonberone | | = 96 C1 | 19081 | | |
| V - Nimonalperioline | | 200.0 | 19001 | 219011 | |
| Dimetholophenetholomine | | 13001 | 13001 | 2100 11 | |
| 2.6-Dichicrophend | | 1300 | 13001 | 2100 [] | |
| -Nitroso - di -N -butviamine | , and | 1360 | U 0081 | 2160 U | |
| 1.2.4.5 - Tetrachlorobenzene | Ą | J 9921 | 1900 U | 2160 U | |
| -Chloropathhalene | We fee | 798 | 1800 U | 2100 U | |
| ert achterohenzene | T T | 1300 | U 0081 | 2100 U | |
| -Naohthylamine | | 1300 | D 9081 | 2100 U | |
| - Nenhthadamina | | 1700.1 | 11 0081 | 2160 11 | |
| 2 Dishandhatanina | 2 | | 19001 | 11 4812 | |
| the capture of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the case of the | 2 | | 1 0001 | | |
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| Tonamide | ¥. | | | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | |
| | £. | 2 | 200 | 0 817 | |
| - Unsethylaminoszobenzene | Š | | | 0 0012 | |
| ,12-Dimethylbenzo(a)anthracene | ş | | | | |
| -Methylcholanthrene | 2 | | 0 0001 | | |
| NC Total | re/s | ž | ¥ | ≨ | Ź |
| ORGANOCHLORINE PRSTICIDESPICE | RSPCBe | | | | |
| PDB-BHC | FEAT | Ź | Ş | ¥ | Ź |
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| Amena - BHC (Lindane) | a de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición dela composición de la composición de la composición de la composición dela composición de la composición de la composición dela composición de la composición de la composición dela composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composic | Ź | ž | Ş | ž |
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| 19.60 | | | *** | 2 | 2 |

De litter sponteer vanie is estimated occusion it is greater than itse manuscent beneation blink (LIDL).

EB - compoundédement was also detected in the associated fleid blank.

HT - ammys analysis bodding time greater than control litels.

AB - compoundédement was also detected in the associated laboratory method blank.

N - apited samples recovery outside of control limbs.

NA - not analysed.

R - rejected white.

Compoundédement was included in analysis, but was not detected.

W - point - digestion spike for Oraphie Flurnace Atomic Absorption (GPAA) analysis is out of control limbs.

U - control limbs (65 - 115%), while sample absorbance it has 59% of the spike absorbance.

Table E-13. Data Presentation: Site 4 -- POL Spill Area -- Oronadwater Samples (1999) 122º d Tactical Egibter Wing, Indiana Air National Guard, Pt. Wayne, Indiana

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| | | Viryl Chloride | Ę | 0.00 | 200 |
| | | Chloroethane | Ž. | | 1 91 |
| | | Acatone | | (a1)0.0 | |
| | | Carbon Disulfide | 1 | os Os | n s |
| | | 1,1 - Dichloroethene | Ę |) a | 30 |
| | | 1,1—Dehloroethane | 1 | 2 | 0.5 |
| | | Chlomform | | 25 | 25 |
| | | 1,2-Dichloroethare | 1 | 22 | 22 |
| | | 2 - Butanone | ₹. | | 0.01 |
| | | 1,1,1 - Trichlorosthane Corbon Tonochloride | į | 25 | |
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| COMPOUNDS | | | SAIC ID Number Laboratory Sample Number 90023901 | F=2 90024801 |
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| COMPOUNDS | Associated Fleid QC Samples | | FB-03 | FB-01,-02,-03 |
| \$\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | Parameter | Units | 8 | EW-05,-06,-07,-08 |
| | SEMIVOLATILE ORGANIC CON | POUNDS | Cho/a vi | 03078 At |
| | bis(2-Oblorosthy)ether | 1 | 10 REHT | |
| | 2-Chicrophenol | Į, | 10 R(EHT) | 10 R(SSR |
| | 1,3—Dichlorobenzene | 1 | S K(BHI) | N N N N N N N N N N N N N N N N N N N |
| | Renad Alcohol | 1 | 20 R/EHT | 20 R/S |
| | 1,2-Dichlorobenzene | 701 | S R(BHT) | S R(SSR |
| | 2-Mabytphenol | 18 | 10 R(EHT) | 10 R(SSR |
| | bia(2-Chlorolappropyl)ather | 70. | 10 R(EHT) | 2 5 |
| | 4 - Mathyphenot N - Mirror - A - N - prondemine | | 10 K(EHT) | |
| | Hezachlorodhane | | 10 REHT | 10 R(SSR) |
| | Nitrobenzene | Ą | 10 R(BHT) | 2 |
| | Isophorone | 4 | 10 R(EHT) | 10 R(SSR) |
| | 2- neropismo 2.4 – Dimethdohenol | | | 10 MCSSR) |
| + + + + + + + + + + + + + + + + + + + | Berzoic Acid | 191 | SO R(EHT) | 2 |
| | bie(2-Chlorosthoxy)methane | J. | 10 R(EHT) | 2: |
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| | Naphthalene | 1 | 10 R(EHT) | 2 |
| | 4-Chloroeniline | 雪 | 20 R(EHT) | 20 R(SSR) |
| | Hetachkorobuladiene | 3 | | 2 \$ |
| | 4 - Calgro - 5 - Eschyphenor 2 - Methdosphehalene | TO THE | 10 R/EHT) | 10 P/S |
| | Herachlorocyclopentadiene | 4 | 10 R(EHT) | 10 R(S |
| | 2,4,6-Trichlorophenol | Ą. | 10 R(EHT) | 10 R(SSR) |
| | 2,4,5 — Tricthforophenoi 2 — Chlomonalethalana | 1 | SOMETTI THEY DE | Se KUSSK Se POSSP |
| | 2-Niconiline | | SORCERT | SO ROSER |
| | Dimetry Pathelate | Ę | 10 R(EHT) | 16 R(SSR) |
| | Acenaphthylene 2.4Dahmeddisma | 1 | 10 R(EHT) | |
| | 3-Niroanline | | SO R(EHT) | SO R/SSR |
| | Acenaphthene | Ę | 10 R(EHT) | 10 R(SSR) |
| | 2,4 - Dinkrophenol | Ž | SOR(EHT) | SO R(SSR) |
| | 4 - Naropamos Dibenzofuran | | ORCHT) | N C C C C C C C C C C C C C C C C C C C |
| | 2,4-Dintrotoluene | 4 | 10 R(EHT) | 10 R(SSR) |
| | Diethylphtbalate | 4 | 10 R(EHT) | 10 R(S |
| | 4-Chicropbeny-pheny Ether Fluorene | | (LPS)N 62 CTH3/N 01 | |
| | 4-Ntroenline | 4 | SO R(EHT) | |
| | 4,6-Dintro-2-mathyphenol | Į. | SO R(EHT) | |
| | n - marosomphemanine 4 - Reomonhemi - nhemi Pilher | | 10 REHT) | 10 R/SSR |
| rophenol #91. rests #91. rests #91. rests #91. rests #91. rests #91. rests #91. rests #91. rests #91. rests #91. rests #91. rests #91. rests #91. rests #91. rests #91. rests #91. rests #91. rests #91. rests #91. rests #91. rests #91. rests #91. | Heachlorobenzene | | 10 REHT) | 10 R(SSR) |
| | Pentachlorophenol | 4 | 30 R(EHT) | 30 R(SSR |
| | Phenanthrene | Į. | 10 R(EHT) | 30 K(S |
| | di-N-Buyiphhaine | 1 | 10 R(EHT) | 10 R(SSR) |
| | Pluoranthene | Į. | 10 R(EHT) | 20 20(5) |
| | Pyrene | Ž | 10 K(EHI) | |
| | 3.3' – Dichlorobenzidine | 14 | 26 REHT | 26 R/S |
| * | Benzo(a)art bracene | Į, | 10 R(EHT) | 10 R(SSR) |
| | Corysone Nation - Bit discondiscipations | į | | |
| 2 2 3 2 3 3 | di-N-Octyl Pithelate | į | CHE) | 36 16(3 |
| 물물: | Benzo(b)fluoranthene | Ž | 10 R(BHT) | 10 R(S |
| | Benao(k) fluoranthene | Ę | 10 R(EHT) | 10 R(SSR |
| | Detack(#Jpyrene Indeno(1.2 3a d)ovrene | 1 | 10 Ken O | 10 R(55R) |
| | Dibenao(a,b)enthracene | ž | 10 R(EHT) | 2 |
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| Table E-13. Data Presentation: Site 4 - POL Spill Area - Groundwater Samples (1996) 1998 Tables Information Air National Council to William Labora Management | sentation: Site 4 - | Noticed Order of Grounder | roundwater Samples (1990) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------|---------------------------|
| SAIC 1D Number | | MW4-02 | |
| Laboratory Sample Number | | 90023901 | 1007706 |
| Associated Pield QC Samples | | FB-03 | FB-01,-02,-03 |
| Parameter | Calle | EW-05,-66,-06,-09 | EW-05,-06,-07,-06 |
| SEMIYOLATILB ORGANIC COMPOUNDS | SONNOS | | |
| (Coatlaned) | | | |
| N-Nitrosodimethylamine | HEAL | SO RUEHTD | SORSSR |
| 2-Ptoline | Total Park | SORIEHT | Se RUSSR) |
| Methyl Methanesulfonate | F | SORCEHT | SO R(SSR) |
| Estry Methanesulfonate | 4 | SO R(BHT) | SO R(SSR) |
| Apiline | 484 | SO RCEHT | SO R(SSR) |
| Acetophenone | Ą | SORVEHT | 50 8/558) |
| N-Nirrosogiperidine | ALEA. | SORIEHT | SO RYSSR) |
| Dimethylphenethylamine | 4 | SORCHI | SO RUSSR) |
| 2,6-Dichlorophenol | 4 | SORIEHT | SO R(SSR) |
| N-Niroso-d-N-butylamine | Ž | 50 R(BHT) | SO R(SSR) |
| 1,2,4,5 - Tetrachlorobenzene | Yey | SO R(EHT) | 50 R(SSR) |
| 1-Chteronaphthalene | Ę | 50 R(EHT) | 50 R(SSR) |
| Pentachlorobenzene | ¥ | SO R(EHT) | SO R(SSR) |
| 1 - Napit bylamine | HOL | SOR(EHT) | Se R(SSR) |
| 2 - Napit bylamine | F | 50 R(EHT) | Se R(SSR) |
| 1,2-Diphenylbydrazine | 4 | So R(BHT) | SO R(SSR) |
| Phenacetin | Į | SO R(EHT) | SO R(SSR) |
| 4 - Aminobipbeny | MAN | SORCEHT | 50 R(SSR) |
| Pronamide | ¥. | SO R(EHT) | SO R(SSR) |
| Benzidine | Z | SO R(EHT) | SO R(SSR) |
| p - Dimet byta minoszobenzene | 3 | So R(EHT) | So R(SSR) |
| 7,12 - Dimethylbenco(a)anthracene | ¥ | SO R(BHT) | SO R(SSR) |
| 3 - Methylcholanthrene | į | 50 R(EHT) | SO R(SSR) |
| TicTotal | Tar. | ¥ | < z |

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B - the reported value is estimated because it is greater than the Instrument Detection Limit (IDL), but less than the Contract Required Detection Limit(RDL).

BB - the reported value is estimated because it is greater than the Instrument Detection Limit (IDL), but less than the Contract Required Detection Limit(RDL).

BB - compoundefement was also detected in the saccitated equipment blank.

BB - compoundefement was also detected in the associated field blank.

BB - compoundefement was also detected in the associated field blank.

BB - compoundefement was also detected in the associated also be an about the compoundefement was also detected in the associated trip blank.

BB - compoundefement was also detected in the associated trip blank.

BB - compoundefement was also detected in the associated trip blank.

TB - compoundefement was included in analysis, but was not detected.

U - compoundefement was included in analysis, but was not detected.

W - poor - digention spike for Craphie Purnace Anomic Absorption (GPAA) analysis is out of control limbs.

(85 - 115 %), while sample absorbance is less than 50% of the spike absorbance.

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| | | SED-1 SED-2 S84-1-1 | SED-2 | | SB4-1-2 | | 1-7-195 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------|---------------------------------------|--------------|--------------|---------------|----------------------------------------------|
| Laboratory Sample Number | | 14395 | 14396 | 13110, 13115 | 13111, 13116 | 13112, 13117 | 13177, 13185 |
| Associated Field QC Samples | | FB2-1 | FB2-1 | FB4-1 | FB4-1 | FB4-1 | FB4-1 |
| | 11 | TB11-7-91 | TB11-7-91 | ໘, | TB10-30-91 | TB10-30-91 | TB10-31-91 |
| | | 1-702 | 1-793 | CD3-1, 4-1 | CD3-1, 4-1 | CD3-1, 4-1 | EB3-1, 4-1 |
| TPU A. Dieni | BE/KB | Αχ. | ۲. د |) | 2: | <u> </u> | |
| TPH As Moor Oil | mg/kg | . 2. | 1.2 | = | 2 0 | \$ <u>\$</u> | 2 9 |
| |) | | | | | | |
| INORGANICS | , | ; | ; | ; | : | į | į |
| Andmony | ing/kg | Z Z | € • Z. 7 | VY V | V. | YZ Y | YZ Y |
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| Thellium | me/ke | Z Z | Ž | 0.33 UJ/N | | | |
| Ziac | mg/kg | V | ٧X | NA. | Y. | VN. | VN. |
| VOLATILE ORGANICS (SOW 1400) | | | | | | | |
| : | HE/Kg | 70 U | 71 U | Y Z | ۲ ۲ | ž | Ž |
| Bromomethane | HEAR | 200 | 71 U | ٧× | Y Z | ₹Z | ź |
| Visyl Chloride | HE/KE | 70 C | טוג | ¥z. | Y Z | ₹ | ¥ |
| Chloroethane | HE/KB | 70 C | 71 U | ٧X | ¥ | ∢ Z | 4 |
| Methylene Chloride | Here | 35 U | 38 C | ٧X | ٧X | ٧X | Y |
| Acetone | HEYE | <u>&</u> | 280 | ٧ | ٧ | ٧X | Y |
| Carbon Disulfide | HEAR | 35 U | 2 C | ¥ | ₹ Z | ×z | ž |
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| 1.2—Dichloroethane | no/ke | = X | = = = = = = = = = = = = = = = = = = = | . × | ₹ X | ₹ 2 | ₹ 2 |
| 2-Butanone | ue/ke | 2 2 | 310 110 | Ž. | S X | X | (4 |
| 1,1,1-Trichloroethane | HE/Kg | 35 U | 3% C | ×z | Y Z | X | ž |
| Carbon Tetrachloride | HEARE | 3S U | 36 U | ٧Z | ٧ | ۷ ۲ | X |
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| 1,2—Dichloropropane | #EXB |) S | ⊃: & & | ž: | ¥ ; | Z: | Z: |
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| Dibromochloromethane | e West | 2 X | 2 % | C ≪ | (4 2 | ₹ 2 | (← |
| 1,1,2-Trichloroethane | HEVE | 38 C | 2% | ď Z | ž | ž | Ž |
| Benzene | HEARE | 3S U | 3% U | 0.59 U | 0.61 U | 0.62 U | 0.61 U |
| trans-1,3-Dichloropropene | HEYE | 3S U | 3% C | ٧X | ٧ | ٧X | × Z |
| Bromoform | HEYE | 33 20 20 20 20 20 20 20 20 20 20 20 20 20 | ⊃: %: | ₹ Z | ¥z: | ž | ۲ |
| 4-Methyl-Z-pentanone | HEYE | 2: |) ; | Ž: | ¥: | Y : | Y : |
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| 1,1,2,2-Tetrachlorocthane | i k | 38.0 | 2 % | ź | e e | Z | ξ Χ |
| Toluene | reke | 3S U | D % | 0.59 U | 0.7 | 1.6 | 0.61 U |
| Chlorobenzene | FORE | 3S U | 3% | 0.59 U | 0.61 U | 0.62 U | D.61 U |
| Ethylbeszene | HEAR | 35 U | 28 | 0.59 U | 0.61 U | 0.62 U | 0.61 U |
| Styrene | Hers | 35 U | % ⊃% | 1.20 U | 1.2 U | 1.2 U | 1.2 U |
| Xylene(Total) | HEAR | 3S C | 28 | Y Z | \ Z | ۲× | ۲× |
| M - P - Xylene | HEAR | ٧× | Š | 1.26 C | 1.2 U | 1.2 U | 1.2 11 |
| | | • | • | | | | } |

Table E-14. Data Presentation: Site 4 - POL Spill Area - Soil and Sedimet Results (1991) 122nd Tactical Fighter Wing, Indiana Air National Guard, Ft. Wayne, Indiana (Continued)

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| Company | | : | TB11-7-91 | TB11-7-91 | TB10-30-91 | TB10-30-91 | TB10-30-91 | TB10-31-91 |
| CACE WORK AND AND AND AND AND AND AND AND AND AND | | - 1 | EB2-1 | EB2-1 | EB3-1, 4-1 | EB3-1, 4-1 | EB3-1, 4-1 | EB3-1, 4-1 |
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| | nis(2-Chloroethyl)ether | HEVE | ۲ ۲ | Y Z | ¥z | \ | ₹ | Y X |
| | :-Chlorophenol | #g/kg | ۲ ۲ | ~ | Y Z | ₹ | Y Z | ۲ ۲ |
| | ,3 - Dichlorobenzene | HEKE | YZ : | YZ: | 0.59 U | 0.61 U | 0.62 U | 0.61 U |
| | ,4 ~ Dichlorobenzene | H6/K8 | ₹ | Y Z. | 0.59 U | 0.61 U | 0.62 U | 0.61 U |
| | 1,2-Dichlorobenzene | HE/KB | ۷ ۷ | Y Z | 0.59 U | 0.61 U | 0.62 U | D 19'0 |
| | :-Methylphenol | HEAKS | ٧ ٧ | ٧x | ¥z | 4 | ٧x | ۲ ۲ |
| | ,2'-oxybis(1Chloropropane) | HCK6 | ٧× | YZ Z | ٧× | ₹ Z | ٧× | ₹ Z |
| Comparison | -Methylphenol | He/kg | Y Z | ۲ ۲ | YZ | ٧× | YZ | ₹ |
| | i - Nitroso - di - N - propylataine | He/Ke | ∀ Z | YZ. | ٧X | YZ. | ₹ Z | * |
| methane gates N. N. N. N. N. N. N. N. N. N. N. N. N. | Terachloroethane | ne/ke | × | Ž | × | ž | × | × |
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| | ,4-Dinitrotoluene | FS E | ٧× | ₹ | ٧ | ۲ ۲ | ۲ ۲ | ۷ ۷ |
| <pre></pre> | Siethyl phthalate | HE/Kg | 4 2 | ۷ ۲ | ₹ Z | 4 Z | ₹ | Y Z |
| | -Chlorophenyl phenyl ether | F¢8 | ٧× | ₹ | ∀ X | ₹ Z | ₹ Z | Y |
| A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A <t< td=""><td>luorene</td><td>#Kg</td><td>۲×</td><td>₹ Z</td><td>₹</td><td>ž</td><td>ž</td><td>X</td></t<> | luorene | #Kg | ۲× | ₹ Z | ₹ | ž | ž | X |
| | Nicrossiline | #Kg | ٧× | ž | ۲ ۲ | ž | ₹ | Y |
| | ,6-Dinitro-2-methylphenol | FF | ٧× | Y | ₹ | ₹ | ∀ Z | × |
| | V-Nitrosodiphenylamiae (1) | HEAS. | ₹ Z | X | ¥: | ž | X: | * |
| | -Bromophenyl phenyl ether | HEKE | 4 2 | ₹ Z | ₹ Z | Z. | 4 | Z : |
| 16/6 | lexact loroben zene | HEAR | Y : | Y : | YZ : | X | ¥: | Š |
| 1646 NA NA NA NA NA NA NA NA NA NA NA NA NA | entachloropheno! | ACKS. | Š | ۲ ۲ | ×z | YZ | \ | ₹ Z |
| 1646 NA NA NA NA NA NA NA NA NA NA NA NA NA | henauthrene | HEVE | ۲ ۳ | 4 | \ Z | ۲ ۲ | ۲ ۲ | < Z |
| FERE NA NA NA NA NA NA NA NA NA NA NA NA NA | Ambracese | HE/KE | X | X | X | ž | ×: | ₹ Z |
| \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | arbazole | FEAR | Ź: | ×× | ×. | X | ₹ Z | Y |
| | li - N - Butyl phthalate | T Y | ₹ | ∢ z. | ₹z | < z | < Z | ₹ |

Table B-14. Data Presentation: Site 4 - POL Spill Area - Soil and Sedimet Results (1991) 1930d Tartical Fisher Wine Indiana Air National Guard 5t Waves Indiana (Conjunct)

| | 122" Tactical Fighter Wing, Indiana Air National | Wing, Indiana | Air National | Guard, Ft. Wayne, Indiana (| ۷ | ontinued) | |
|-----------------------------|--------------------------------------------------|----------------|--------------|-----------------------------|--------------|--------------|--------------|
| SAIC ID Number | | SED-1 | SED-2 | SB4-1-1 | SB4-1-2 | SB4-1-6 | SB4-2-1 |
| Laboratory Sample Number | | 14395 | 143% | 13110, 13115 | 13111, 13116 | 13112, 13117 | 13177, 13185 |
| Associated Field QC Samples | | FB2-1 | FB2-1 | FB4-1 | FB4-1 | FB4-1 | FB4-1 |
| • | | TB11-7-91 | TB11-7-91 | TB10-30-91 | TB10-30-91 | TB10-30-91 | TB10-31-91 |
| Parameter | Units | EB2-1 | EB2-1 | EB3-1, 4-1 | EB3-1, 4-1 | EB3-1, 4-1 | EB3-1, 4-1 |
| SEMIVOLATILE ORGANICS (S | CS (SOW 3/90) | | | | | | |
| (Continued) | • | | | | | | |
| Pyrene | HE/KR | Y X | Y. | Y. | ٧X | YZ | ٧× |
| Butylbenzylphthalate | HEYKE | ¥ _N | Y. | Y. | ٧× | ₹z | ٧X |
| 3,3'-Dichlorobenzidine | HE/Kg | ¥ | ٧z | YN | ¥ | ٧x | ٧× |
| Benzo(a)anthracene | Heles | N | ¥ | Y X | ٧× | ٧ | ٧× |
| Chrysene | Here | ۷ X | Y. | ¥z | ٧ | ¥Z | ¥Z |
| bis(2-Ethylhexyl)phthalate | Hg/kg | ž | YZ. | ٧× | Y. | ٧x | Ϋ́ |
| di-N-Octyl phthalate | Hg/kg | ¥ | ¥Z. | ٧X | ٧X | ٧x | ۲× |
| Benzo(b)fluoranthene | HE/KE | ¥ | Y Z | ۲z | ٧X | ٧x | Y Z |
| Benzo(k)fluoranthene | HS/Kg | ٧X | Y. | ٧ | ٧× | ¥ | ₹ Z |
| Benzo(a)pyrene | HEKE | ¥2 | YZ. | ¥ Z | ٧ | 4 2 | ž |
| Indeno(1,2,3-cd)pyrene | HE/Kg | ¥ | Y Z | ٧× | ¥ | ٧x | ۲ ۲ |
| Dibeazo(a,h)anthracene | gx/sH | ۲X | Y Z | ٧× | ۲ | ٧× | × |
| Benzo(g,h,i)perylene | HE/KE | ¥ | ¥Z | ۲ ۲ | ₹ Z | ۷ ۲ | ₹ Z |
| TIC Total | mg/kg | ž | Y. | ₹z | ¥Z | ٧× | ٧× |
| | | | | | | | |

J – estimated value

N – spiked sample recovery outside of coatrol limits

NA – not analyzed

U – compound/element was included in analyzis, but was not detected

• – duplicate sample analyzis outside of control limits

| SAICID Number SB4-3-1 SB4-3-2 SB4-3-4 | | | | | |
|-------------------------------------------|-----------|--------------------------|--------------------|--------------------|------------------------------------------|
| | | SB4-2-2 | SB4-3-1 | SB4-3-2 | SB4-3-4 |
| Laboratory Sample Number | | 13178, 13186 | 13191, 13200 | 13192, 13201 | 13193, 13202 |
| Associated Field QC Samples | | | FB4-1 | FB4-1 | FB4-1 |
| Parameter | Units | TB10-31-91 EB3-1, 4-1 | TB11-1-91 EB4-1 | TB11-1-91 EB4-1 | TB11-1-91 EB4-1 |
| TPH as Oasoline | mg/kg | - | 10 | - | 10 |
| TPH As Diesel | nck: | | ים | חם | 2 |
| TPH As Motor Oil | Syde M | 2 | 10 C | D 01 | 12 |
| INORGANICS | | | | | |
| Astimosy | meke | Y _Z | ٧× | 4 | 4 2 |
| Amenic | | 6.3 J(N) | Y _Z | Y _Z | |
| Beryllium | mg/kg | VN | ٧X | ٧× | |
| Cadmium | TA'S | V. | ٧× | ¥ | |
| Chromium | mc/kg | W | ٧X | ¥ | Y _Z |
| Copper | mg/kg | ٧X | ٧X | ¥ | |
| Lead | mg/kg | 0.2 | 19.3 J(*) | 11.7 J(*) | |
| Mercury | #\% | Y X | ۲× | 4 % | |
| Nickel | | Y X | | \ | 4 |
| Scientific | | (N)(O 57:0 | | Š | X : |
| Suver | | AN CONTRACT | ۲ : ۲ : | < : | 4 |
| Zinc | 12 | NA NA | | (< Z | 4 2 |
| VOLATILE ORGANICS (SOW 399) | W 3/90) | | | | |
| Chloromethane | HEAR | Y. | ۲× | ¥ | 4 % |
| Bromomethane | FEAS | ۲ ۲ | ×× | YN | ٧x |
| Vinyl Chloride | HEAR | ٧× | Y | ۲ ۲ | Y X |
| Chloroethane | Hers | ٧X | ۲ ۲ | ٧× | ٧x |
| Methylene Chloride | EK. | Y : | Y: | ¥: | Y : |
| Actore Control Division | FEXE | ۲ ÷ | < : | < < Z 2 | 4 |
| 1.1-Dichlorethene | | € × | ξ Χ | ζ Χ | ₹ 2 |
| 1,1-Dichloroethane | FCAS | Y. | X | X | * |
| 1,2-Dichloroethene (Total) | FEAS | ٧× | Z.A | ۲ ۲ | ۲ |
| Chloroform | Fere | ×z | * | Y | Y |
| 1,2-Dichloroethane | HE/KE | Y : | Y : | Y : | Y : |
| 2-Bulleone 111-Trichlocombane | S A S | < < | < < | < < | < < 2 |
| Carbon Tetrachloride | | ξ χ | Ž | : < | (v |
| Bromodichloromethane | He/Kg | Y. | Y Z | ٧ ٧ | × z |
| 1,2-Dichloropropane | ICAS. | ٧X | X | × | ۷z |
| cis - 1,3 - Dichloropropene | FEAS | ٧X | Y Z | ۷ ۷ | 4 2 |
| Trichloroethene | HERE | ٧X | ¥. | 4 2 | Y |
| Dibromoch loromethane | FERE | ₹ | Y: | ¥: | * |
| 1, 1,2 - Trichloroethane | Ž. | YN. | ۲. ۲. | Y | Y X |
| Benzene | TO T | 0.57 0 | 0.67 | 0.63.0 | 0.860 |
| ness - 1,5 - Dresnotopropese Bromoform | | ₹ 2 | C ₹ | ζ ∢ | (< |
| 4-Methyl-2-pentanone | | (~ | ₹ 2 | C 2 | ₹ 2 |
| 2-Hexanone | E S | × | Š | × | X |
| Tetrachloroethene | 16kg | 4 | * | ¥ | × |
| 1,1,2,2—Tetrachloroethane | reke | ٧X | Y | ٧X | ٧x |
| Tolucae | FORE | 3.5 | 0.67 U | 8 .0 | D 650 |
| Chlorobensene | reke T | 0.57 U | 0.67 U | 0.63 U | 0.59 0 |
| El hyber mene | 1 | 0.57 U | 0.67 | 0.63.0 | 0.650 |
| Xylene Xylene (Total) | | - X | 2 4 | ? ₹ | 2 Y Z |
| M-P-Xvene | | 11 11 | 13.0 | | ֚֚֚֚֚֚֚֚֚֚֚֓֞֝֝֟֝֟֝֟֝֟֝֟֝֟֝֟֓֓֓֓֓֓֓֓֓֓֓֓ |
| | | | | | 7 |

| SAIC ID Number SB4-3-1 SB4-3-2 SB4-3-4 | | SB4-2-2 | SB4-3-1 | SB4-3-2 | SB4-3-4 |
|------------------------------------------------|----------|---------------|--------------------------------------------|--------------|----------------|
| Laboratory Sample Number | | 13178, 13186 | 13191, 13200 | 13192, 13201 | 13193, 13202 |
| Associated Pield QC Samples | | FB4-1 | FB4-1 | FB4-1 | FB4-1 |
| | | TB10-31-91 | TB11-1-91 | TB11-1-91 | TB11-1-91 |
| Parameter Units Control Control | Units | EB3-1, 4-1 | E84-1 | EB4-1 | E84-1 |
| SEMINOLATILE UNUANICS (| Cock and | *2 | *2 | 2 | 2 |
| Lincard. | | Ç > | ξ 2 | ζ 2 | 5 7 |
| oo(z - Chlorothyr)ctaet | SA SA | S | £ 2 | * | £ ; |
| 2 - Dichlosphanana | | 100 | 1100 | 1200 | 585 |
| 4. Disklaratore | | | 0.00 | 0.69.0 | 0.550 |
| 1,4 — Dichlorobenzene 1,2 — Dichlorobenzene | 9 | 11 25 0 | 0 /90 | 0.63.0 | 11 05 0 |
| 2-Methylphenol | | O V |) ▼ 2 |) Y Z | Ž |
| 2.2"-orvbis(1-Chlorogromes) | | Z Z | € × | Z Z | ξ Χ |
| 4-Methylphenol | ine/ke | × | × | × | × |
| N-Nitroto-di-N-propylamine | ins/ke | × | × | Ž | × |
| Hexachloroethane | e/ke | Ž | ž | × | ž |
| Nitrobenzene | me/ke | × | Z | Ž | × |
| sophorone | HEAR | ž | Ž | Z | Š |
| 2-Nitrophenol | ne/ke | ž | ž | ž | Y Z |
| 2.4-Dimethylphenol | HERE | Ž | Ž | Z | ž |
| bis(2-Chloroethoxy)methane | ne/ke | × | Z | ž | × |
| 2.4 - Dichlorophenol | ne/ke | Ž | Ž | Ž | Š. |
| 1.2.4—Trichlorobenzene | me/ke | × | Ž | × | × |
| Naphthalene | ne/ke | × | ź | Z | ₹Z |
| 4 - Chloroan iline | Me/Kg | ٧X | ٧z | ٧X | ٧× |
| Hexachlorobutadiene | HEAR | ₹ X | YZ | ₹ Z | Y _N |
| 4-Chloro-3-methylphenol | HEAKS | ٧X | ₹ Z | ٧x | 4 × |
| Hexachlorocyclopentadiene | HEAR | ٧X | ٧z | ٧x | ¥ |
| 2,4,6-Trichlorophenol | HEVE | ٧× | ٧× | ¥ | ¥ |
| 2-Methylnaphthalene | # ByBri | ž | Y | ٧X | ¥ |
| 2,4,5—Trichloorophenol | Hg/kg | ¥ | ۲ ۲ | × | \ Z |
| 2-Chloronaphthalene | HE/KB | ∢ Z | ۲ ۲ | < Z | ۲ ۲ |
| 2-Nitrosniline | HE/KB | ۷ ۲ | ¥ | ₹ Z | ¥ |
| Dimethyl phthalate | #g/kg | ¥. | ž | ž | ₹ |
| Acenaphthylene | #B/KB | × Z | Y Z | YZ : | ₹ |
| 2,6-Dinitrotoluene | HE/KB | ₹: | Y : | Y : | Ž: |
| 3-Narossiine | #E/KB | ¥ Z | Y Z | ₹ Z | ¥ Z |
| Acenaphthene | HE/KB | ∢ Z | ∢ Z | ₹ | ž |
| 2.4 - Dintrophenol | HE/KE | ₹ Z | ₹ Z | X: | KZ: |
| t Narophenol | HE'KB | ž: | ¥ ; | ₹ : | Š: |
| Dibenzofuran | HB/KB | Y: | ¥: | Y : | Y |
| Z4Unatrotoluene | EX. | Ž: | Š: | ₹ : | Y : |
| Decrey parasists | FEVE | <u>ج</u> ج | S ? | S 2 | ۲ : |
| | E A | 4 | 4 2 | E 2 | ۲ × |
| - Newson State | | < | C 2 | Ç ∢ | (A |
| 4. Cinitoral methologon | | (| ₹ 2 | ₹ 2 | (4 |
| Newsodishesslessies (1) | | 2 | ξ 2 | 2 2 | 2 2 |
| (-Bromonheavi pheavi ether | | ξ Χ | < × | . × | (X |
| Hexachlorobenzene | me/ke | ž | × | × | × |
| Pentachlorophenol | ne/ke | × | * | × | Ž |
| Phenanthrene | re/ke | ž | ž | ž | × |
| Asthracene | Ž | × | Y _Z | × | Y Z |
| Carbazole | 1 | ž | ž | ž | ٧x |
| di-X-Batyl obthalate | 400 | *** | | 11 | |
| | | C E | <z< td=""><td>₹z</td><td>₹ Z</td></z<> | ₹z | ₹ Z |

| = | | | | |
|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------|--------------------------|--|
| Results (199 | (Continued | SB4-3-4 | 13193, 13202 | |
| l and Sedimet | Vayne, Indiana | SB4-3-2 | 13192, 13201 | |
| pill Arca – Soi | al Guard, Ft. V | SB4-3-1 | 13191, 13200 | |
| on: Site 4 – POL S _l | Indiana Air Nation | SB4-2-2 | 13178, 13186 | |
| Table B-14. Data Presentation: Site 4 - POL Spill Area - Soil and Sedimet Results (1991) | 122nd Tactical Fighter Wing, Indiana Air National Guard, Ft. Wayne, Indiana (Continued) | SAIC ID Number | Laboratory Sample Number | |

| Associated Field QC Samples | | FB4-1 | F84-1 | | PB4-1 |
|-----------------------------|------------|----------------|----------------|------------|----------------|
| • | | TB10-31-91 | TB11-1-91 | TB11-1-91 | TB11-1-91 |
| Parameter | Units | EB3-1, 4-1 | EB4-1 | E84-1 | EB4-1 |
| SEMIVOLATILE ORGANICS | (SOW 3/90) | | | | |
| (Continued) | | | | | |
| Pyrene | HE/KE | ¥ | Y Z | Y Z | Y X |
| Butybenzylphthalate | HE/Kg | ¥z | ₹ | ۷z | ¥ |
| 3,3'-Dichlorobenzidine | Here | ₹ | ۲ ۲ | ٧× | ¥X |
| Benzo(a)anthracene | HE/Kg | ¥× | ×× | ₹ Z | ¥ |
| Chrysene | mg/kg | ¥ | ¥ | Y Z | Y. |
| bis(2-Ethylhexyl)phthalate | HE/KE | ∀ Z | ٧x | ₹z | ₹ |
| di-N-Octyl phthalate | HEAL | ∀ Z | × | × | × |
| Benzo(b)fluoranthene | Fe/kg | ۲× | × | ₹ | Y _N |
| Benzo(k)fluoranthene | HE/KE | ¥ _N | × | ₹ | ¥ |
| Benzo(a)pyrene | HEAR | ¥× | ¥x | ٧× | ¥ |
| Indeno(1,2,3-cd)pyrene | HEYE | ∀ Z | ٧x | ٧x | ٧× |
| Dibenzo(a,h)anthracene | #S/Kg | ₹ Z | ×× | ₹ | ¥ |
| Benzo(g,h,i)perylene | HEAR | ∀ X | Y _N | ٧X | ٧X |
| TICTotal | HE/KE | ¥ Z | × | ٧X | × |

1 — estimated value

N — spiked sample recovery outside of control limits

NA — not analyzed

U — compound/element was included in analysis, but was not detected

— duplicate sample analysis outside of control limits

| (1991) | |
|-------------------------------|-----------------------------|
| nples (| disna |
| er Sat | - |
| dwat | F. Vav |
| iroundwater S | Ē |
|) | Guar |
| - POL Spill Area | Vir National Guard |
| L Spil | Ž |
| \mathbf{z} | - |
| _ | |
| Data Presentation: Site 4 - F | e Indians |
| ation: | Ę |
| cscol | ishte |
| ta Pr | H Tay |
| 0 | L |
| E-15 | 1990d Tantinal Righter Wine |
| Table E-15. Data Presentation | |

| | | | 70-14 | MW4-02 MW4-02K | 1 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|---------------|------------------|-------------------|
| Laboratory Sample Number | | 14357 | 14358 | 14359 | 14397 |
| Associated Field QC Samples | | FB21 | FB2-1 | FB2-1 | FB2-1 |
| • | | TB11-6-91 | TB11-6-91 | TB11-6-91 | TB11-7-91 |
| Parameter | - 1 | BB2-1 | EB2-1 | EB2-1 | EB2-1 |
| TPH as Gasoline | | 0.05 U | 0.05 U | 0.05 U | ٧× |
| TPH As Diesel | mg/L | 0.05 U | 0.05 U | 0.05 U | 0.52 |
| IPH As Motor Oil | mg/L | 0.5 U | 0.5 0 | 0.5 U | 0.S U |
| INORGANICS | | | | | |
| Antimony | .Non | ×× | ž | ¥X | × |
| Arsenic | You. | Z Z | ž | × | × |
| Reryllium | Vo. | Ž | X | ¥ | Ž |
| Cadmium | | : Z | . Z | . A | : × |
| | | 5 2 | ; × | 5 2 | |
| | 167 | ¥ ; | ξ; | ¥ ; | £ ; |
| Copper | He/L | ¥ S | ¥ ? | YZ; | ¥; |
| Lead | HEAL | S) | 701 | 11.6 | 10.6 |
| Mercury | #6/L | ₹ | ۷ ۲ | ۷ ۲ | ₹ Z |
| Nickel | Mg/L | Y X | Y Y | Y X | ¥ Z |
| Selenium | T/an | × | ₹2 | × | ¥ |
| Silver | ne. | ¥Z | Z | X | YZ. |
| Thallium | Trov. | Y. | × | Y. | ¥ |
| Zinc | Feb. | Y Z | Y. | Y X | Y Z |
| | 10000 | | | | |
| VOLATILE UNGANICS (SUW 3/30) | (De/E M | ** | 7 | *2 | ** |
| | 184 1 | S : | C 7 | £ ; | ξ; |
| Dromomet nane | 16 | 4 | ۲ × | 4 | ₹ : 2. 2 |
| Vinyl Caloride | HEVE | 4 | V 7 | Y : | ₹ ? |
| Chloretaine | LEAT. | 4 | ₹ ? | V : | € ; |
| Metaylene Chioride | 1681 | 4 2 | 4 | € 2 | ₹ ? |
| Actione | 1/8/1 | ¥ ; | 4 ? | ۲ ; | ₹ ; |
| Caroon Distinge | Hg/L | £ ; | V • | 4 ; | 4 |
| 1,1 - Dienforgenene | HB/L | £ ; | £ 2 | E 2 | * |
| 1.1 - Dienfordinand | HENT. | S 2 | < < | ۲ <u>۲</u> | 4 |
| 1,2-Dichloroethene (10tal) | No. | ¢ ; | K | 4 | ₹ ; |
| | 184 | Y : | ۷ : | Y ; | ¥ ; |
| 1,4-Dichlorethane | Hg/L | K 2 | € ~ | C 2 | K |
| 2-Dylanone | HENT. | 4 | £ 7 | K 2 | 4 2 |
| 1,1,1 - I richiolocidane | TENT TO | ¢ ; | £ 2 | £ 2 | ¢ • |
| Department of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con | | C 2 | £ 2 | 5 2 | < < |
| DOMESTICATION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY | 18 | X | (* | C 2 | (* |
| 1,4 - Denotopiopane ci-12 - Dickleronmone | 100 | C 2 | (4 | C | < |
| ra-1,3-Dramotopiopere | Taget. | (* | (4 | ((2 | (< |
| Dibromochloromethene | 1 | C 4 | C 4 | C 42 | C 2 |
| 1.1.2. Tricklosombane | 1 V 0 11 | C 4 | 2 | (4 | C 42 |
| Personal Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Prope | 1 | 11 20 | 1150 | 11.50 | 11 50 |
| Den zene Irane – 13 – Dicklosopropana | | C ▼ |) () () | C 42 | ? ∀ |
| Romoform | | (| . Z | ζ γ | (4 |
| 4-Methyl=2-neutenone | 1 ye | Ç ∀ | . X | : X | (A |
| 2-Hexanone | Ven Ven | Ž | Z | × | Ž |
| Tetrachlomethene | Tel. | Ž | Z | × | Ž |
| 1,1,2,2-Tetrachloroethane | 79 | ∀ X | YZ. | ¥Z | ₹X |
| Toluene | me/L | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Chlorobenzene | Tom | 0.5 U | 0.5 U | 0.S U | 0.5 U |
| Ethylben zen e | 1 | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| Styrene | 16. J. | 1 U | 10 | ומ | 10 |
| Xylene(Total) | HeA. | Y | ٧x | \ | ¥ Z |
| M-P-Xylene | T/an | <u> </u> | 10 | זכ | = |
| | | | | | • |

Table E-15. Data Presentation: Site 4 - POL Spill Area - Groundwater Samples (1991)
122nd Tactical Fighter Wing, Indiana Air National Guard, Ft. Wayne, Indiana (Continued)

| Laboratory Samples Number Associated Field QC Samples Parameter SEMI VOLATILE OR CIANICS (SOW 3.99) Phenol Phenol Li3-Chlorophenol Li4-Dichlorobenzene Li4-Dichlorobenzene Li2-Dichlorobenzene Li2-Dichlorobenzene Li2-Dichlorobenzene Li2-Dichlorobenzene Li2-Dichlorobenzene Li2-Dichlorobenzene Li2-Dichlorobenzene Li2-Dichlorobenzene Li2-Dichlorobenzene Li2-Anthylphenol M-Nitrobenzene Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone Lipphonone | TB11-6-91 TB12-1 TB13-6-91 TB2-1 TB3-990) | 14358 14358 FB2 – 1 TB11 – 6 – 91 EB2 – 1 | 14359 14359 FB2 – 1 | F21 14397 FB2-1 TB11-7-01 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------|---------------------------|------------------------------------|
| Associated Field QC Samples Associated Field QC Samples Parameter SBMIVOLATILE ORGANICS (SOW 3) Phenol bis(2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Amethylphenol 1,4-Dichlorophenol 1,4-Dichlorophenol 1,4-Dichlorophenol 1,4-Dichlorophenol 1,2-A-Methylphenol 1,2-A-Dimethylphenol 1,4-Dimethylphenol 1,4-Dimethylphenol 1,4-Dimethylphenol 1,4-Dimethylphenol 1,4-Dimethylphenol 1,4-Chlorochonzene 1,2,4-Dimethylphenol 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene 1,2,4-Chlorochonzene | | FB2 - 1 TB11-6-91 EB2-1 | FB2-1 | FB2-1 TB11-7-01 |
| Parameter Parameter SBMI VOLATILE OR GANICS (SOW 3) Phenol bis (2-Chlorophenol 1,3-Dichlorobenzee 1,2-Dichlorobenzee 1,2-Dichlorobenzee 1,2-Dichlorobenzee 1,2-Dichlorobenzee 1,2-Dichlorobenzee 1,2-Methylphenol 2,2'-oxybis (1-Chloropropane) 4-Methylphenol 4-Methylphenol Mrobenzee 1,2-Dichloroelane 1,2-Nitropeneol 1,2-Nitrophenol 1,2-Nitrophenol 1,2-Dichloroelane 1,2-Dichloroelane 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorochonzene 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-Dichlorophenol 1,2-D | • - | FB2-1 TB11-6-91 EB2-1 | FB2-1 | FB2-1 |
| Parameter SEMIVOLATILE OR GANICS (SOW 3) Phenol bis(2-Chloropthenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Methylphenol 2,2'-oxybis(1-Chloropropane) 4-Methylphenol N-Nitrobenzene 1,4-Methylphenol 1,4-Methylphenol 1,4-Trichlorophenol 1,4-Trichlorophenol 1,4-Trichlorophenol 1,4-Trichlorophenol 1,4-Trichlorophenol 1,4-Trichlorophenol 1,4-Trichlorophenol 1,4-Chlorocanine 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlorocanadiene 1,4-Chlo | • - | TB11-6-91 EB2-1 | | 2.0 |
| Fatameter Fatameter SEMI VOLA TILE OR OANICS (SOW 3) Phenol bis(2-Chloroethyl)ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Methylphenol 1,2-Methylphenol 1,2-Mirophenol 1,2-Nitrobenzene 1,2-Nitrobenzene 1,2-Nitrobenzene 1,2-Trichlorophenol 1,2-Trichlorophenol 1,2-Trichlorophenol 1,2-Trichlorophenol 1,2-Trichlorophenol 1,3-Trichlorophenol 1,3-Trichlorophenol 1,3-Trichlorophenol 1,3-Trichlorophenol 1,3-Trichlorophenol 1,3-Trichlorophenol 1,3-Trichlorophenol 1,3-Trichlorophenol 1,4-Trichlorophenol 1,4-Tri | | 1-793 | 16-0-1191 | 16-1-1101 |
| Phenol bis(2-Chbroethyl)ether bis(2-Chbroethyl)ether 2-Chbrophenol 1,3-Dichbrobenzene 1,2-Dichbrobenzene 1,2-Dichbrobenzene 2,2-methylphenol 2,2-mybis(1-Chbropropane) 4-Methylphenol N-Nitroso-di-N-propylamine Hexachloroethane Nitrobenzene Isophorone 2,4-Dimethylphenol bis(2-Chbroethoxy)methane 2,4-Dimethylphenol bis(2-Chbroethoxy)methane 2,4-Dichbrophenol 1,2,4-Trichbrobenzene Naphthalene Hexachloroethoxylphenol 1,2,4-Trichbrobenzene Hexachloroethoxylphenol 1,2,4-Trichbrobenzene Hexachloroethoxylphenol Hexachloroethoxylphenol Hexachloroethoxylphenol Hexachloroethoxylphenol Hexachloroethoxylphenol Hexachloroethoxylphenol Hexachloroethoxylphenol Hexachloroethoxylphenol Hexachloroethoxylphenol Hexachloroethoxylphenol Hexachloroethoxylphenol | 3/30) | | E82-1 | EB2-1 |
| Famol bis(2—Chlorochly))ether 2—Chlorophenol 1,3—Dichlorobenzene 1,4—Dichlorobenzene 1,4—Dichlorobenzene 2,2—Achlyphenol 2,2—Avehlyphenol 4—Methlyphenol 4—Methlyphenol 1,4—Dichlorocethane Nirobenzene 1,6—Methlyphenol 4,6—Chlorocethane 1,6,4—Dichlorophenol 1,6,4—Dichlorocethane 1,6,4—Dichlorocethane 1,6,4—Dichlorocethane 1,6,4—Chlorocethane 1,6,4 | | • | • | |
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| ii. e) | We/L NA | ٧× | ٧x | Y X |
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| Zo-Dinitrololuene | LEAL NA | ₹ \$ | 4 | ۲ : ۲ : 2 |
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| | | X X | C 2 | C 4 |
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| obenvi ether | | Ž | Z | Y. |
| | | 4 2 | × | ž |
| | | × | ž | ₹Z |
| -methylphenol | NA NA | YZ | YZ | YZ. |
| | HEAL NA | ۲ ۲ | ₹ | ₹ Z |
| enyl ether | | Y X | ۷ ۷ | ∀ Z |
| • | | Y X | ٧z | ٧ |
| enol | | ¥z. | ٧X | ٧x |
| Phenanthrene Mg | | Y Z | ٧X | ٧x |
| • | HEAL NA | Ž: | 4 | X |
| | | X : | Y : | Y Z |
| phthalate | AN S | ¥: | Y ; | Y : |
| Flactablese 78 | PAL NA | S | \ 2 | \ |

| SEMI VOLA ILLE URGANIC | (3CM 3/20) | | | | | |
|----------------------------|------------|----------|----------|-----|----|--|
| (Continued) | | | | | | |
| Pyrene | mg/L | ¥ | Y. | ٧X | ¥Z | |
| Butybenzylphthalate | ng/L | ٧× | Ϋ́N | ٧x | ٧X | |
| 3,3'-Dichlorobenzidine | mg/L | ٧X | Ϋ́ | Y. | ٧ | |
| Benzo(a)anthracene | mg/L | ¥ | ٧X | ٧X | ٧X | |
| Chrysene | Jught. | ¥2 | NA VA | V. | ٧X | |
| bis(2-Ethylhexyl)phthalate | me/L | Ϋ́ | NA VA | Y. | Ϋ́ | |
| di-N-Octyl phthalate | me/L | ¥ | AN | ٧X | ٧X | |
| Ben 20(b) fluoranthene | WR/L | Y. | Y. | ¥Z | Y. | |
| Benzo(k)fluoranthene | me/L | ¥ | ٧X | ٧X | ٧X | |
| Benzo(a)pyrene | T/Bm | Ϋ́ | ΥN | ٧X | ٧X | |
| Indeno(1,2,3-cd)pyrene | WE/L | ٧X | ٧X | ¥Z. | ٧X | |
| Dibenzo(a,h)anthracene | Mg/L | Y. | Ϋ́ | ۷. | ¥Z | |
| Benzo(g,h,i)perylene | HR/L | Y. | ٧X | Y. | ٧V | |
| TIC Total | Mg/L | NA VA | AN | ٧X | ٧X | |
| NA 4 | | | | | | |

NA-not analyzed U-compound/element was included in analysis, but was not detected

| NA NA NA NA NA NA NA NA NA NA NA NA NA N | SAIC ID Number | | | EW-02 | EW-03 | | EW-06 | EW-06 | EW-07 | EW-08 | EW-09 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------|----------------------------------------------|-------------------|---------------|------------|-------------------------------------------------------------------|-------------------------|----------------------|----------------|----------------|
| | Associated Field OC Samples | | NA NA | NA NA | WA1806 | | 10477004 N | 6085290¥ | _ | COLCZONA VN | MI COMM |
| | Transfer | Units | <u> </u> | \$ | ę | <u> </u> | <u> </u> | • | Č. | C | Ç |
| | otal Petroleum Hydrocarbons | Vew | 1 UVHT | Y. | THAIL | YN. | 111 | ٧N | 111 | - | 111 |
| | NI And Grease | | | (4 | YN YN | Z Z | - × | ₹ 2 | - Y | - X | 7 |
| | PH as Gasoline | And A | ₹ Z | ž | × | ź | X | ž | ž | ž | Ž |
| No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. | PH As Diesel | B. | ٧Z | ž | ~ | < Z | 4 2 | ۲ ۲ | ۲ ۲ | YZ. | Y. |
| 1001 | IPH As Motor Oil | ng/L | ٧ | ۲ ۲ | ۲ ۲ | ۷ Z | ۲× | < Z | <u> </u> | < | Y |
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B — the reported value is estimated because it is greater than the first unsern Detection Limit (IDL), but keps than the Contract Required Detection Limit(CRDL)

BIT — extraction bolding time outside control limits

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W — post—dispesion spike for Grapbite Furnace Atomic Ab or palon (GFAA) analysis is out of control limits (65—115%), while sample absorbance is less than 56% of the spike absorbance

Table B-17. Data Presentation: Equipment Blanks (1991) -- 122nd Tactical Fighter Wing, Indiana Air National Guard Ft. Wayne, Indiana

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3 – estimated value

NM – compound/element was also detected in the associated laboratory method blank

N – spiked sample recovery outside of control limits

NA – not analyzed

U – compound/element was included in analyzed

U – compound/element was included in analyzed

Table B-18. Data Presentation: Field Blanks (1990 and 1991) - 122nd Tactical Fighter Wing, Indiana Indiana Air National Chard. Ft. Wayne. Indiana

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| HEAT 190 190 190 190 NA NA NA NA NA NA NA NA NA NA NA NA NA | Acrylonitrile | No. | 700 | 29 | 200 | 19 | ٧× | ¥ | ď |
| HEAT 100 51 160 100 NA NA NA NA HEAT 100 100 100 NA NA NA HEAT 100 100 100 NA NA NA HEAT 100 100 100 NA NA NA HEAT 100 100 100 NA NA NA NA NA NA NA NA NA NA NA NA NA | Dibromomethane | W. | 100 | 200 | 201 | 100 | × | ź | × |
| HEAT 100 100 100 NA NA NA NA NA NA NA NA NA NA NA NA NA | 1.23~Trickloromonane | | 10.00 | 2.5 | 2 9 | 2 | ¥ | X | × |
| N VN NN NN NN NN NN NN NN NN NN NN NN NN | 1 4-Dichlorobytope | | 2 5 | . 5 | ======================================= | = = | ž | 2 | ž |
| N VN VN ON 100 100 100 100 100 100 100 100 100 10 | Petral Methacralete | | 2 5 | 2 = | 2 5 | ======================================= | Z | | : × |
| HE TOTAL 300 300 NA NA NA NA NA NA NA NA NA NA NA NA NA | Tricklorofluoromethane | | 2 92 | 191 |) = 9 | 2 | × | Ž | ž |
| | Dicklorodifluoromethane | | 2 5 | : S | : 5 | ; 5 | * | . × | × |
| | TIO Totals | | 9 | 9,0 | , 6 |) | () (| • | • |
| | | | | | | | | | |

Table E-18. Data Presentation: Field Blanks (1990 and 1991) - 122nd Tactical Fighter Wing, Indiana Air National Guard, Ft. Wavne, Indiana (Continued)

| 3 61 61 | | Indiana A | r National Gea | rd, Ft. Wayne, I | adiana (Contin | | | |
|------------------------------------------------|------------|------------------|---------------------------------------------------------------------|---------------------|---------------------|-----------------------|---------------|------------------|
| Laboratory Sample Number | • | FB-01 0021708 | FB-01 FB-02 FB-03 HI-01 137 90021708 90021709 90023606 90025106 133 | FB - 03 90023606 | HI = 01 90025106 | FB1-1 13299, 14223 | FB21 14360 | 13195, 13204 |
| Associated Field QC Samples | | ۲× | Y. | N. | YZ | ¥. | Y. | ¥. |
| Parameter | k | | | | | | | |
| Phase | MPOUNDS | 5 | 110 | | - | 1 91 | 1 07 | |
| bis(2-Chloroethyl)ether | | 2 2 | 200 | 2 9 | 2 2 | 2 2 | 2 2 | 2 5 |
| 2-Chlorophenol | To the | D 01 | D 01 | D 01 | 2 2 | 2 2 | 2 |) O. |
| 1,3-Dichlorobenzene | 3 | ٠ د د | D : | n s | n s | 10 0 | 10 0 | 10 C |
| 1,4 Dichlorobenzene Rennel Alechal | 1 |) } |) ; |) s |) } | 2 2 | 9 4 | 2 , |
| 1.2-Dichlorobenzene | 7 | 2 S | 2 S | 2 2 | 2 2 | 7 O. | 2 9 | 2 91 |
| 2-Methy phenol | 3 | O 01 | D 01 | 10 C | 2 2 | 200 | 2 | 2 2 |
| bis(2-Chloroisopropyl)ether | 7 | 10 C | D 01 | D 01 | O 01 | 10 U | 10 U | 10 U |
| 4 - Methylphenol | 7 | 2 : | 2: | 2 : | 2: | 2 : | ⊃: 2: | D : |
| N-Nitroso-di-N-propytamine Herrothoroethane | 7.84 | 2 5 | 2 5 | 2 5 | | 9 9 | 2 9 | 2 5 |
| Nirobensere | | 2 9 | 2 6 | 2 5 | | 2 5 | 2 5 | 9 5 |
| Isoporone | | 200 | 201 | 2 9 | | 2 9 | 2 5 | 2 2 |
| 2-Nirophenol | 7 |) O |) OI | 2 02 | 2 2 | 2 2 | 2 01 | 2 9 |
| 2,4-Dimethylphenol | 79. | 0 01 | O 01 | 0 01 | D 01 | 10 01 | ∩ 01 |) OI |
| Benzolc Acid | MB/L | 20 C | 20 C | 200 | 20 C | Y Z | ۲ ۲ | ž |
| bis(2-Chloroethoxy)methane | 7 |) 0 | D 01 | 2 | 2 | 2 | 10.0 | D 01 |
| 2,4 Dichlorophenol | 100 | | | 25 | 2 5 | 2 2 | 25 | 2 : |
| Namhthalane | 100 | 2 5 | 2 5 | 2 5 | | 2 5 | 2 5 | 2 5 |
| 4-Chloroaniline | | 20 17 | 202 | 2 2 | 2 2 | 2 9 | 2 5 | 2 5 |
| Hexachlorobutadiene | | D 01 | 100 | 10 01 | 2 02 | D 01 | 2 2 | î 01 |
| 4-Chloro-3-methyl phenol | 78 | O 01 | 10 U | 10 U | 10 U | 10 U | 10 OI | 10 U |
| 2-Methylnaphthalene | 7 | 2 | 201 | 2 | 2 : | 200 | 2 2 | ∩ <u>0</u> 2 |
| riexachiorocyclopentadiene | 101 | 2 9 | | 2 | 2 : | 2 5 | 2 5 | 2: |
| 2.4.5 - Trichlorophenol | | 2 5 | 2 5 | 2 5 | 2 5 | 2 5 | 2 5 | 2 5 |
| 2-Chloronaphthalene | 1 | 2 | 201 | 2 02 | 2 2 | 2 00 | 10.0 | 2 2 |
| 2-Nitroaniline | , F. | 20 € | 20 0 | 20 C | 20 0 | 20 C | 20 € | 20 0 |
| Dimethyl Phthalate | 79, |) 2 | ⊃ : 9: | D 01 | D 91 | D : | D 02 | D 01 |
| Acensphthylene 2 6 Diej modinen | #8/F | 2 5 | 2 5 | 2 5 | 2 5 | 2 5 | 2 : | 2 5 |
| 3. Nitropuline | | 2 9 | 2 5 | 2 5 | 2 5 | 2 5 | 2 5 | 2 5 |
| Acenaphthene | 7 | D 01 | D 01 | 20.00 | D 01 | D 01 | 10 O | 10 O |
| 2,4-Dinitrophenol | 4 | ∩ es | D 05 | D 05 | 20 0 | D 05 | ∩ 05 30 | 20 0 |
| Discoperation | 7 |) 9, 5 | 200 | o : | 2 5 | ⊃ : S : | S : | ⊃ : 8: |
| 2.4-Dinitrotoluene | | 2 2 | 2 9 | 2 2 | 2 2 | 2 2 | 2 2 | 2 2 |
| Diethyl phthalate | 78. | 10 0 | 10 01 | 100 | D 01 | 201 | 10 D | 10 01 |
| 4-Chlorophenyl-phenyl Ether | 4 | 20 U | 20 02 | n 92 | 20 U | Y | Y. | ٧X |
| Floorene A - Nitrandiina | 4 | 25 | ⊃ = 2 | 2 5 | 25 | 2 5 | 2 5 | <u>.</u> |
| 4,6-Diniro-2-methylphenol | 1 | 2 % | 2 2 | \$ 8 | 2 8 | 2 00 | 2 8 | 2 2 |
| N-Nitrosodiphenylamine | re T | ⊃ 0 I | 10 C | 10 E | D 01 | D 91 | D 01 | 10 D |
| 4 Bromophenyl phenyl Ether | 2 |) 9 | D 01 | D : | 2 | Y. | Y Z | V |
| Hexachlorobenzene | 3 | ⊃ : 2 | 2 5 | 2 5 | 2 5 | 25 | 2 5 | 2 5 |
| Phenanthrepe | | 2 2 | 2 2 | 2 2 | 2 2 | 2 5 | 2 5 | 2 5 |
| Anthracene | 1 | 0.01 | 001 | 2 | 10 01 | 2 | 2 0 |) O |
| Carbazole | \$ | Y. | YZ | ¥ | ¥ | D 01 | 10 U | 10 U |
| Gi - N - Butyphthalate | 3 | | | 2: | 2 5 | 2 5 | 2: | 2 5 |
| Pyrene | | 22 | 2 2 | 2 2 | 222 | 2 2 | 2 2 | 2 2 |
| Butybenzyphthalate | 167 | 10 U | D 01 | D 01 | 10 C | 10 U | 10 U | 2 |
| 3,3' - Dichtorobenzidine | 4 | ⊃: 8: | ⊃: | ⊃ : 8 : | 2: | ⊃ : 9 : | 2: | ⊃: 2 : |
| Chrysene | 14 | 2 2 | 2 2 | 2 2 | 2 2 | | 2 2 | 2 2 |
| bia(2-Ethylhexyl)pbthalate | \$ | 10 C | | 10 P | 0.01 | D 91 | 10 01 | 200 |
| di - N - Octyf phthalate | 7. | 2 : | 2: | 2: | 2 | D: | 2 | 2 : |
| Benzolvannene | | 2 2 | 2 5 | 2 2 | 2 5 | |) = 1 9. 9 | |
| Benzo(a)pyrene | 3 | 2 | 200 | 2 | 2 2 | 0.01 | 2 02 | 2 02 |
| Indeno(1,2,3 - cd)pyrene | Ž. | 2 : | D 01 | D 91 | D 92 | D 01 | D 01 | 10 U |
| Dibenzo a,b)anthracene Renzo e hiberdene | 4 5 | 2 5 | 2 5 | 2 5 | 2 2 | 9 9 | 9 5 | 2 5 |
| | ł | : | : | 2 |) <u>:</u> | 2 | : | 2 |

Table B-18. Data Presentation: Field Blanks (1990 and 1991) - 122nd Tactical Fighter Wing, India Mandiana Air National Guard, Ft. Wayne, Indiana (Continued)

| AAIC, ID Number Laboratory Sample Number Amochated Filed OC Samples Units SEMIYOLATILE ORGANIC COMPOUNDS | • | FB-01 90021708 NA | 90021709 | 90023606 | 90025106 | 13299, 14223 | 14360 | 13195, 13204 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------|-----------|---------------------|-------------|--------------|---------------|---------------|
| made of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o | • | A N | COLTRACT | 1 | 201 | | | |
| Francier BMIVOLATILE ORGANIC COM | | | × × | 92 | 73 | 42 | 7 | 7 |
| BMIVOLATILE ORGANIC COM | Units | ¢. | Ç E | Ç | Ç K | Ç | C | ζ |
| | SUNITOR | | | | | | | |
| Continued) | | | | | | | | |
| V-Nirrosodimethylamine | well. | 20 13 | 20 0 | 20 05 | 200 | × | × | × |
| - Modine | 7 | 20 05 | 5 | 20 05 | 7 05 | Y. | Z | × |
| fethy Methanemifonate | | 2 05 | 2 95 | 20 05 | 200 | × | Z | × |
| Sthy Methanesulfonate | Wed. | 20 02 | 2000 | 20 05 | 20 05 | × | ž | Ž |
| Aniline | 6 | 20 05 | 2 95 | 1 05 | 20 05 | × | Z | × |
| Acetophenone | 7 | 20 05 | 2 9 | 205 | 205 | Y. | × | ž |
| N - Nitrosoninecidine | | 20 2 | 2 95 | 200 | 200 | × | ¥ | × |
| Dimestralahanstralamen | } | = | 5 | 5 | 9 | · × | X | * |
| A - Dichlorophenol | | ? \$ | 2 5 | = = | 2 5 | ; 4 | 2 | * * |
| - Misson oppositor | 7 | 2 5 | 2 5 | 3 5 | 2 5 | Ç 7 | Ç X | ζ γ |
| | | 2 5 | 2 5 | 2 5 | 2 5 | \$ 2 | £ 2 | £ 2 |
| , c, 4,5 - I etracheroenzene | #6. 12. |) ? ? | 2 3 | ⊃: ?: | 2 : | K : | ζ; | ۲ : |
| - Chloronapothalene | 167 | 0 0 | 2 2 | 0 96 | 2 : | ≨ : | \$; | Š; |
| entachlorobenzene | 76 | 200 | 200 | 200 | ⊃ : | Ž: | ₹ Z | Y |
| -Naphthylamine | 184 184 | 8 | Տ | 2005 | 2 8 2 | ₹ | < Z | ۲ ۲ |
| -Naphthylamine | 777T | 20 00 | 20 | 20 00 | 200 | ¥ | ۲X | ٧X |
| 2-Dinhendhydrazine | , Fan | 50.13 | 200 | 20 05 | 20 U | × | × × | × |
| henacetin | | 20 27 | 5 | 11 05 | 95 | ž | Z | Y |
| A (1-1 - 1 | | | | | | | | |
| - Aminosipaciny | į | 2: | 2 3 | 2 | 2 : | Š | C : | £ ; |
| ronamide | 7 | ⊃ : B: | ⊃ ; | 2 |) ? | ≨ : | S | ۲ : |
| Jenadine | 2 | 2 2 2 | 2 5 | 2 : | ⊃ : 8 : | Š | Y | Y |
| - Dimethylaminos zobenzene | #6/L | S S | 28 | 2002 | 30 C | ۲ ۲ | ۲ ۲ | ¥ |
| ,12-Dimethylbenzo(a)anthracene | #. | S S | \$ | 2008 | S | £ | ž | ۲ ۲ |
| - Methyl cholant brene | 777 | 2 8 | 20€ | ⊃ 8 | ⊃ 8 | ž | ۲ ۲ | × |
| ric Total | HEAT. | ۲× | × | ¥ | ٧ X | 9 | 8(3) | 9 |
| | • | | | | | | | |
| ORGANOCHLORINB PBSTICIDBS/PCB | SYPCB | | | | | | | |
| uppa – BHC | 7 | 9. 8. | 8. | 0.00 | 9.66 | ₹ | < Z | Y |
| seta – BHC | 1.87 1.87 | 9.8 2.8 | 9.6 | 0.00 | 9.8 C | ž | ۲ ۲ | < Z |
| pamma - BHC (Lindane) | #8/L | 9.8 D | 9.6 5 | 9.6 | 9.6 | ž | × Z | ۲ ۲ |
| Jeite - BHC | HBAL. | 9.05 U | 0.66 | 0.66 U | 0.05 U | ¥ | ¥ | ٧× |
| festachlor | #e/L | 9.66 | 0.66 U | D 99'6 | 9.6 | ¥ | ž | × |
| Aldrin | | 59.0 | 7 990 | D 900 | 2 99 | ž | × | × |
| Hentachlor Faoride | V | 200 | 20 | 2 500 | 2 50 | Ž | × | × |
| Budoeilfen-1 | | = = | 2 390 | 2 80 | 200 | Y | 2 | × |
| Niedelle Niedelle | 1 | 2 5 | 2 5 6 | 200 | 1010 | : × | . × | 2 |
| | | | | | 1 6 6 | ₹ 2 | ₹ 2 | (* |
| | | | | | 11010 | X | . × | . × |
| | 1 | | | | | \$ 3 | <u> </u> | <u> </u> |
| | 18 | 2:0 | 200 | | 200 | £ ; | ξ: | ۲ : |
| - DDD | 7 | 0.10 | 0.00 | 0.20 | 0.10 | ≨ : | ۲ ۲ | ۲ : |
| Endrin Aldebyde | 484 | 9.10 | 0.10 | 9.10 | 0.10 | \$ | X | × |
| Endosulfan Sulfate | 787 | 9.70 C | 9.10 C | 0.10 U | 0.10 | Y | < Z | × z |
| .4'-DDT | 787 | 9.10 C | 9.10 C | 9.90 C | 0.10 C | ≨ | ž | < |
| Methoxychlor | 7 | 9. ¤ ⊂ | 0.XC | 0.25 U | 9.25 C | ₹ | < Z | < |
| Chlordane | 484 | 9.65 C | 0.65 U | 0.45 U | 0.65 U | ž | Y | ۷ Z |
| loxaphene | 45 | 200.∓ | 7.00 C | ⊃ 00.7 | 7.00 € | ž | * Z | ∢ Z |
| Arodor - 1016 | #EAL | 2.00 C | 2.00 U | 2:00 C | 2:00 € | ş | < z | < z |
| Aroclor 1221 | 44 | 2.50 U | 250 U | 2.50 U | 2.50 U | ¥. | ž | < Z |
| Arodor 1232 | 45/ | 250 U | 250 U | 250 U | 250 U | ž | × | × |
| Aroctor = 1242 | | 2.50 11 | 2.50 17 | 250 U | 250 U | ž | ž | × |
| Nroclor - 1248 | | 2.00 [] | 2.001 | 2.00 U 2.00 U NA NA | 2.00 U | ¥ | × | × |
| kronton-1254 | | 9 | 5 | 9 | 1 30 | V | × | Z |
| 1200 Landon - 1360 | | 2 | 8 | 90- | 199 | × | × | × |

to — the reported value is submated because it is greater than control limit.

1. - stangle analysis bolding time greater than control limit.

2. - estimated value.

MB — compound/element was also detected in the associated laboratory method blank.

MA — not analyzed.

U — compound/element was included in analyzis, but was not detected.

WA — post—dispession spike for Grapbite Furnace Atomic Absorption (GPAA) analyzes in the submitted of the spike absorbance is less than 50% of the spike absorbance.

| SAIC ID Number | | 10-01 | 1.8 - 01 1.8 - 0.3 | 7.8-03 | TB-04 | TR-05 | T8-98 | TB-07 | TG-08 | TB-09(a) | TB-10 | TB-11 | TB-12 |
|-------------------------------|----------|----------------|--------------------|-------------|-----------|---------------|-------------------------|---------------|--------------|-------------|---------------|-------------------|---------------------------------------------|
| e Numba | | 90021712 | 90021713 | 90021714 | 90021807 | 90022315 | 900224FB | 900236TB | 90023902 | 90024802 | 90024903 | \$00 24904 | 10152004 |
| Associated Field OC Samples | | < Z | ₹ Z | < 2 | ۲ ۲ | ž | < 2 | ۲ ۲ | ۲ | < | ۲ 2 | Y Z | Y |
| Pasmeter Co. ANIC COMBOINED | Contract | | | | | | | | | | | | |
| VOLATILE OROANIC COMPL | SONO. | 101 | = | 191 | = | = | 2 | | 5 | : | | | : |
| | 7 | | | 2 9 | 2 : | 2 : | S : | | | 2: | 2 : | | |
| Dromomethane | 3 | | 2 : | 2 : | 2: | 2 5 | ۲ : ۲ : | 2 9 | 2 : | 2 : | 2 : | 2 : | 2 : |
| Viny Chloride | 1 | 2 5 | 2 5 | 2 9 | 2 5 | 2 : | C : | 2 : | | | | | 2 : |
| Charlemane | Ž, | 2: | 2: | 2 : | 2 : | 2 - | ¢ ; | 2 | | | 2 ; | 2 ; | |
| Methyene Carolide | Ž, | • | | 2 : | 2 | - : | ۲ ; ۲ ; | • | • | 2 | | 2 | 7 |
| Acetone | 7 | 2 - | 2 - | 2 5 | 2 : | 2 | ۲ : د ع | 2 : | 2 : | 2 : | 2: | 2 : 2 : | ⊃ : •••••••••••••••••••••••••••••••••••• |
| | Ž, | | :: |) : | 2 : |) : | < : | o : | 2: | 2 : |) : (|) (|) : (|
| 1,1 - Dichlor bethere | 7 | 2: | 2: |) : (| ⊋: | 2: | <u>ج</u> | ָם; ה | O : | 2 : | ה ה | ה ה | 2 6 |
| I.1 - Dichloroethane | 4 | ⊃ : | ο: | ⊃: : | ο: |) : | ¥: |)) |) (| ⊃ : | . | ⊃ : | 3 |
| 1.2 - 1 yerhoroethene (10(3)) | 3 | 2 : | 0 : | 0 : |) (| ○ : | S | ∩ : | 2 | ? ∶ | 2 | 20 | 2 |
| Charder | HW. | 2 | <u>-</u> | 20 | 20 | 2 | Y | ~ ~ | 2 5 | ⊃ . | ~ | 2 0 | = ~ |
| 1,2-Dichloroethane | 3 |) C | າດ | 3 0 |) (| | < Z | 3 C | 30 | ⊃ |) U | <u> </u> | 3 C |
| 2 - Butanone | 18 | 200 | 10 0 | ⊃ 0 | 10 C | □ | ۷ Z | ∩ 91 | 20 | 2 | 2 | 20 | 2 |
| 1,1,1-Trichloroethane | 7 | 2 | o s | 20 | s C | 2.5 | ₹ Z | ~ | S U | ? | S U | 20 |) v |
| Carbon Tetrachloride | 7 | 30 | 3.0 | 3 0 | 3.0 | 3 U | 4 2 |) C | 3.0 | 36 | 30 | 3.0 | 3.0 |
| Vinyt Acetate | | 2 | 10 C | 200 | 20 | ∩ 9 | Y | 2 02 | ⊇ | ∩ 01 | ⊃ • | ⊃ • | ⊃ • |
| Bromodichloromethane | 7 | 20 | 20 | 200 | 20 | 2. | < Z | 2 | γ | 2.0 | S | S U | 2 :: |
| 1,2 - Dichloropropane | 767 | <u>د</u> | 20 | 2.0 | S U | S U | ٧ |)) | 20 | 2.0 | SU | 20 | ⊃ < |
| cis-1,3-Dichlaropropene | 78. | S.U | 20 |) (| n s | o s | ۲ ۲ | 3.0 | S | ٠ د | o s | . s | 2.0 |
| Trichloroethene | 7 | S U | o s | 2 0 | 2.0 | o s | < Z | a c | 2.0 | , , | 20 | o s | 2.0 |
| Dibromochioromethane | #8/L | 2 | 2 | 20 |) (| s c | < Z | 2 | n s |) • | S C | 2.5 | 20 |
| 1,1,2 - Trichloroethane | 787 | S U | S U |) (| o s | o s | ۲ ۲ | | SU | o s | o s | o s | S U |
| Benzene | 79. | = | 7 | 3.3 | 3 C | 3.0 | ۲ ۲ | 3.0 | nε |) U | 3 0 | 3.0 |) U |
| rans-1,3-Dichloropropene | , re | S U | | S U | n s | 20 | ~ | n s | 2.0 | 9 C | S U | 20 | 2.0 |
| Bromoform | 7 | ⊃ ; | | 2 | 2.0 | Š | ž | o s | n s | 2.5 | o s | 2.5 | o s |
| 4-Methyl-2-pentanone | 7 | 2 | 2 | 2 | 2 | 2 9 | < Z | 2 01 | ○ 01 | = 9 | 2 | ⊃ 93 | ⊃ |
| 2 - Hexanone | . FEA. |) • | 2 | 2 | 2 | 201 | ₹ Z | 2 | 2 | 2 | ⊃ 2 | 2 2 | 2 |
| Tetrachloroethene | 7 | 2: | |) (| ָר נ | 2 : | Y : | 2 |) r | 2 | ב ה |) (|) (|
| 1,1,2,2 - I etrachioroethane | Ž, | 2: | 2: | 2 : | 2 : | = : | ۲ : ۲ : | 2 : | 2: |) : • |) : (|) (|) • |
| Johnstein | 7 | | 2 : | 2 3 | 2 : |) : | < : | 2 : |) : (|) : |) : : |) · | → : |
| | 7 | | 2 : | o : | 0: | : : | S | 2 : | 2 |) ; | 2 : | o : | 2 : |
| | 7 | 2: | 2: | 2 : | 2: | 2: | 4 2 |) ; | 2: | 2: | > : | 2: | ⊋; ~ |
| Total Kidenes | | | , é | 2 = | 2 5 | 25 | < < | 2.5 | 2 2 | | 25 | 2 2 | 23 |
| 2 - Chicamphat Viend Ether | | 2 | 2 5 | = | . 5 | : = | < × | 9 | | ? 5 | ? = | 2 | |
| lodomethane | 3 | 2 9 | 2 0 | 2 | 2 | 2 2 | ź | 2 9 | 2 | 2 | 2 2 | 2 2 | 2 2 |
| Agolein | 7 | \$ | O 04 | 19 | 10 | 9 | Y | 7 0 | 20 | 100 | \$ | 9 | 9 |
| Aaylonitrik | 7 | \$ | ⊃ Q | - 94 | C) 04 | A 0+ | 4 | 107 | 7 9 | 2.04 | O 04 | 1 04 | \$ |
| Dibromomethane | 18 | 1 0 1 | O 01 | ∩ 01 | 10 C | 201 | ۲ Z | 0.01 | ∩ 0 1 | O 01 | ⊃ 91 | ⊃ 91 | |
| 1,2,3 - Trichloropropane | ž | 2 | ⊃ 2 | 20 | 100 | ∩ 01 | ۲ ۲ | = 9 | 001 | 2 | 2 01 | O 01 | <u> </u> |
| 1,4-Dichlorobutane | 7 | <u> </u> | ⊃ : 2 | 2 | 2 | 201 | < Z | 2 <u>e</u> | O 01 | O 01 | 2 |) 9 | 2 |
| Ethyl Methadylate | 7 | 2 | 9 | 2 | 2 | 0 0 | < Z | 2 | 2 | 200 | 2 | _ | 2 |
| Trichlorofluoromethane | 1 | 2 | = : | 2 | 2 | ⊃ : | ₹ Z | 2 0 | 2 | 2 | 2 | 2 | ⊃ 9 |
| Dichlorodifluoromethane | Ž, | ⊃ ? | ⊃ ; |) S | 26. | S . | ď : | 2 | 28 | 2 | 2 2 | 2 | 2 8 |
| IC Ionals | MAL | 000 | 000 | No. | (V) | n n | <u>ک</u> | 410 | D)O | 7970 | Y 2 | ž | ¥ |
| | | | | | | | | | | | | | |

estimated value
 NA – not analyzed
 U – contpound/element was included in malyas, but was not detected
 (a) Sample was incorrectly labelled on Chain – of – custody as TB – 08

| Table B-20. Data Presentation: Trip Blanks (1991) - 122 nd Tactical Pighter Wing, Indiana Air National Guard, Pt. Wayne, Indiana | ioa: Tri | Blanks (1991 |) - 122nd Ti | ctical Fighte | r Wing, India | aa Air Natio | nal Guard, Pt. V | Vayac, Indiana |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|--------------|---------------|---------------|--------------|------------------|-----------------------|
| SAIC ID Number | | TB10-30-91 | TB10-31-91 | TB11-1-91 | TB11-3-91 | TRIP BLNK | TB11-6-91 | TB11-7-91 |
| Laboratory Sample Number | | 13113 | 13180 | 13196 | 13301 | 14268 | 14362 | 14399 |
| Associated Field QC Samples | | ٧× | ₹ 2 | × | ₹z | ¥ | ٧× | ¥X |
| Parameter | Unite | | | | | | | į |
| VOLATILE ORGANIC COMPOUNDS | SOA | | | | | | | |
| Chloromethane | 187 1 | 10 U | 10 C | 10 U | 101 | 10 01 | 10 C | 10 01 |
| Bromomethane | W. | 10 C | 10 U | 10 U | 10 01 | 10 01 | D 91 | 200 |
| Vinyl Chloride | Na. | 10 U | 10 U | 10 U | 10 U | 10 U | 10 C | 10 01 |
| Chloroethane | WE. | ∩ 01 | □ 01 | | D 01 | ∩ 91 | D 01 | 7 01 |
| Methylene Chloride | T/S | 0.5 | SU | | SU | SU | S UCMB) | |
| Acetone | T/S# | ∩ 01 | 10 U | 10 U | 10 U | 10 01 | 10 OI | _ |
| Carbon Disulfide | 4 | 2 0 | SU | SC | SU | 0 \$ | S U | S C |
| 1,1 - Dichloroethene | A A | S U | SU | SU | O S | 3 C | S C | n s |
| 1,1-Dichloroethane | 77 | 5 U | SU | SU | SU | SU | S U | s u |
| 1,2-Dichloroethene (total) | Tan. | S U | SU | S U | SU | | SU | S U |
| Chloroform | 787 | S U | SU | SU | SU | SU | n s | S U |
| 1,2-Dichloroethane | T T | S U | S U | 20 | SU | | S U | S U |
| 2-Butanone | W. | 200 | 10 U | 10 O | 10 U | | 101 | 10 01 |
| 1,1,1-Trichloroethane | F. F. | S U | SU | SU | SU | | 20 | SU |
| Carbon Tetrachloride | 79 | o s | S U | S U | \$ | \$ 0 | o s | S |
| Bromodichloromethane | 784 | n s | o s | S U | SU | | N S | S U |
| 1,2-Dichloropropane | 187 | S.C | SU | SU | SU | | o s | 3.0 |
| cis-1,3-Dichloropropene | F. F. | S U | S U | | SU | | o s | S U |
| Trichloroethene | HE/L | o s | SU | | Ω \$ | | ΩS | 20 |
| Dibromochloromethane | A PA | S U | S U | SU | SU | | S U | 0 S |
| 1,1,2-Trichforoethane | 7 | 2 0 | \$ 0 | S U | 3 υ | | o s | s u |
| Benzene | F. P. | 20 | SU | SU | 3.0 | | 2 U | o s |
| trans - 1,3 - Dichloropropene | 784 | S U | SU | SU | S U | O S | S U | o s |
| Bromoform | 7 | S U | SU | | o s | | S U | S U |
| 4 - Methyl - 2 - pentanone | 3 | 202 | 201 | • | 201 | • | 201 | 10 0 |
| 2-Hexanone | 787 | 10 OI | 101 | | 100 | | 10 C | D 91 |
| Tetrachloroethene | F. P. | SC | SU | ~ | SU | | 2.0 | S.U |
| 1,1,2,2 - Tetrachloroethane | 4 | ΩS | SU | | 20 | ~ | 30 | S U |
| Toluene | 7 | D S | SC | | 20\$ | • | S C | o s |
| Chlorobenzene | 7 | S U | SU | | SU | 8 | S U | 3.0 |
| Ethyl benzene | 78 M | 20 | SU | 3 C | S U | 20 | S U | 2 C |
| Syrene | 184 | 20 | S U | 20 | SU | ~ | 3 C | 3 U |
| Xylene (total) | # 6/L | SU | SU | S U | 20 | ~ | n s | o s |
| TIC Totals | NA. | 90 | 90 | 9 | 9 | 000 | 9 | (<u>0</u>) 0 |

TIC Totals

MS — compoundefement was also detected in the associated isboratory method blank. MA — not analyzed

U — compoundefement was included in analyzed.

U — compoundefement was included in analyzed.

APPENDIX F
DATA QUALITY ASSESSMENT

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APPENDIX F. DATA QUALITY ASSESSMENT

F.1 INTRODUCTION

A standardized quality assurance/quality control (QA/QC) program was followed during the Site Investigation (SI) conducted at the Indiana Air National Guard Base (ANGB), located at Baer Field near Fort Wayne, Indiana, to ensure that analytical results and the decisions based on these results were representative of the environmental condition at the sites. The objective of the SI was to confirm the presence of contamination, collect and analyze sufficient numbers of samples to determine the lateral and vertical extent of contamination detected during the original field effort, and conclude SI activities at three sites. The SI was conducted using the Hazardous Waste Remedial Actions Program (HAZWRAP) Levels B and C (i.e., U.S. Environmental Protection Agency [EPA] Levels II and III) OC requirements described in Requirements For Quality Control Of Analytical Data (DOE/HWP-65/R1, July 1990). Tables F-1a and F-1b present the numbers of soil and sediment samples and groundwater samples, respectively, collected during the Indiana ANGB Fort Wayne, Indiana Field SI, in addition to the numbers of field QC samples collected and selected laboratory QC (i.e., matrix spikes and duplicates) samples analyzed. The data validation worksheets are referenced within the subsection describing the applicable analysis. The QC checks and results, applicable to the 1990 and 1991 field effort, are summarized below.

F.1.1 Data Quality Objectives

The following sections summarize the data quality objectives (DQOs) for precision, accuracy, representativeness, comparability, and completeness (PARCC) obtained during the Indiana ANGB.

F.1.1.1 Precision

Precision was defined as the reproducibility, or degree of agreement, among replicate measurements of the same quantity. The closer the numerical values of the measurements are to each other, the more precise the measurement is. Analytical precision was expressed as the

TABLE F—14. ANALYTICAL METHODS AND TOTAL NUMBERS OF SOIL AND SEDIMENT SAMPLES COLLECTED DURING THE SITE INSPECTION, INDIANA INDIANA INDIANA AIR NATIONAL GUARD BASE, FORT WAYNE, INDIANA

| | ANALYTICAL DETECTION | DETECTION | | | | | | | |
|----------------------------------------------------|----------------------------------------------|-----------|-----------------|-------------------------|------|-------|---------------------|--------|--------------------------|
| PARAMETER | METHOD | LIMIT | SOIL SAMPLES | SOIL SAMPLES REPLICATES | TRIP | FIELD | EQUIPMENT BLANKS | MS/MSD | TOTAL NUMBER OF ANALYSES |
| Volatile Organic Compounds | SW 5030/8240 | æ | 11 | 0 | 9 | 2 | 3 | 2 | 26 |
| Volatile Organic Compounds | CLP SOW 3/90 | æ | 39 | 6 | \$ | 7 | 7 | 8 | 57 |
| Aromatic Volatile (BTEX) | SW 5030/8020 | œ | ٥ | 0 | 1 | ; | 1 | - | und und |
| Semivolatile Organic Compounds | SW 3550/8270 | es | 30 | vol | ! | 7 | ю | 8 | 9 |
| Semivolatile Organic Compounds | CLP SOW 3/90 | œ | 36 | 60 | 1 | 7 | 2 | 7 | 47 |
| Pesticide/PCB | SW 3530/8080 | œ | 7 | 0 | ! | 7 | - | - | 13 |
| Priority Polluant Metals Arsenic | SW 3050/6010 SW 3050/7060 | গুৰু ধ | 89 | 4 | ! | 8 | 4 | • | 63 |
| Mercury Selenium | SW 3050/7740 | te; es | | | | | | | |
| Antimony Thallium Lead (Total) | SW 3005/7041 SW 3050/7841 SW 3050/7421 | લદ લા લદ | 01 | 0 | ! | 8 | | _ | 8 |
| Total Petroleum Hydrocarbons and Oil and Grease | SW 3550/E 418.1 SW 3550/E 413.2 | æ | 72 | ٧. | 1 | m | ₩. | • | \$6 |
| | | | | | | , | | | |

a - Detection limits are matrix and sample specific. All detection limits are listed on the comprehensive data tables located in Appendix E.

Sediment samples: SD4-01, SD4-02, SED-1, and SED-2.

TABLE F – 16. ANALYTICAL METHODS AND TOTAL NUMBERS OF GROUNDWATER SAMPLES COLLECTED DURING THE SITE INSPECTION, INDIANA AIR NATIONAL GUARD BASE, FORT WAYNE, INDIANA

| | ANALYTICAL DETECTION | DETECTION | | | | | | | |
|----------------------------------------------------|----------------------------------------------|----------------|------------------|--------------------------|-----------|-------|-----------|--------|--------------|
| PARAMETER | метнор | LIMIT | WATER SAMPLES | WATER SAMPLES REPLICATES | TRIP | FIELD | EQUIPMENT | MS/MSD | TOTAL NUMBER |
| Volatile Organic Compounds | SW 8240 | 6 2 | 7 | 0 | \$ | - | 2 | 0 | 15 |
| Volatile Organic Compounds | CLP SOW 3/90 | æ | • | *** | 2 | - | ю | 2 | 11 |
| Aromatic Volatile (BTEX) | SW 8020 | æ | 4 | - | ! | ; | I I | - | 7 |
| Semivolatile Organic Compounds | SW 3510/8270 | a | 7 | 0 | ! | ~ | 2 | 0 | 01 |
| Semivolatile Organic Compounds | CLP SOW 3/90 | a | s | - | 1 | - | 7 | - | = |
| Pesticide/PCB | SW 3510/8080 | æ | 7 | 0 | 1 | - | 0 | • | * |
| Priority Polluant Metals Argenic Lead | SW 3005/6010 SW 3050/7060 SW 3020/7420 | 43 45 4 | 01 | - | : | - | 2 | m | 20 |
| Mercury Selenium | SW 7470 SW 3050/7740 | : «: «: | | | | | | | |
| Antimony Thallium Lead (Total) | SW 3020/7841 SW 3020/7841 SW 3020/7420 | તાલ વ | ,, | _ | 1 | c | - | • | , |
| TDS | E 160.1 | a | , » | • • | | . 17 | | - : | ` ^ |
| Total Petroleum Hydrocarbons and Oil and Grease | SW 3550/E 418.1 SW 3550/E 413.2 | a | = | + | ! | - | ₹ | 0 | 11 |
| | | | | | | | | • | |

a -- Detection limits are matrix and sample specific. All detection limits are listed on the comprehensive data tables located in Appendix E.

[•] MS anlysis only.
•• Duplicate analysis only

percentage of the difference between results of duplicate samples for a given compound or element. Relative percent difference (RPD) was calculated as:

$$\frac{/C_1 - C_2/}{\left(\frac{C_1 + C_2}{2}\right)} \times 100$$

where:

 C_1 = Concentration of the compound or element in the sample

 C_2 = Concentration of the compound or element in the duplicate/replicate.

Precision was determined using matrix spike/matrix spike duplicate (MS/MSD) and duplicate sample analyses conducted on samples collected for volatile organic compound (VOC), semivolatile organic compound (SVOC), pesticide/polychlorinated biphenyl (PCB) analyses and, total petroleum hydrocarbon (TPH), oil and grease, priority pollutant metals and total dissolved solids (TDS) analyses during the Fort Wayne SI. The laboratory selected 1 sample in 20 and split the sample into 2 additional aliquots. MS/MSD samples were prepared by routinely analyzing the first aliquot for the parameters of interest, while the remaining two aliquots were spiked with known quantities of the parameters of interest before analysis. The RPD between the spike results was calculated and used as an indication of the analytical precision for the VOC and SVOC analyses performed. Duplicate samples (i.e., for priority pollutant metals, oil and greases, TPH, and TDS analyses) were prepared by subdividing 1 sample of every 20 samples received and analyzing both samples of the duplicate pair. The RPD between the spike results was calculated and used as an indication of the analytical precision for VOC, SVOC, and pesticide/PCB analyses performed. The RPD between two detected concentrations was calculated and used as an indication of the analytical precision for the analyses performed.

All RPD values calculated from the VOC analyses were within the EPA Contract Laboratory Program (CLP) advisory control limits for analytical precision. Thirteen RPD values (of 55 total values) calculated from the SVOC analyses and one RPD value (of 6 total

values) calculated from the pesticide/PCB analyses were outside the EPA CLP advisory control limits for analytical precision. Since each analysis was evaluated according to the required QC criteria described in Section F.3 and all of these criteria were met for the environmental samples analyzed, these RPD values are considered to be more representative reflection of the variability characteristic of the environmental condition at the Indiana ANGB, and as a result, the analytical DQO for VOC, SVOC, and pesticide/PCB (in soils only) precision is considered to have been met. The analytical precision DOO for pesticides/PCBs in groundwater could not be evaluated, since the MS/MSD analyses for that matrix was conducted using a Field OC blank, rather than an environmental sample. All priority pollutant metals RPD values were within the control limits, except aluminum, arsenic, chromium, cooper, lead, manganese, and zinc. As a result, data validation qualifiers were applied to these elements in numerous soil samples associated with those samples analyzed in duplicate. These results are considered to have little impact on the environmental data quality and considered more likely to be a result of the regional matrix variability, since all other analytical QC criteria were met. Therefore, the analytical precision DQO for these metals analyses is considered to have been met. Four RPD values calculated from TPH analysis, one RPD value calculated from oil and grease analysis, and one RPD value was calculated from TDS analysis were within the appropriate limit; therefore, the analytical precision DOO for these analyses is considered to have been met. The analytical QC evaluation criteria used to evaluate analytical precision and all MS/MSD results are discussed in Section F.3.

Sample collection reproducibility and media variability were measured in the laboratory by the analysis of field replicates. Field replicates were collected using the same sample techniques as those used to collect the environmental samples. One in 10 similar matrices was collected, and sample collection reproducibility and media variability were evaluated based on the RPD values between two duplicate samples. No corrective action was taken based on RPD values.

All soil samples to be analyzed by the laboratory were collected using brass (i.e., for VOC, SVOC, TPH, and oil and grease analyses) and stainless steel (i.e., for priority pollutant metals analyses) liners. Each split spoon was filled with sufficient liners such that replicate

samples could be collected at any sample collection interval. After the split spoon sampler was retrieved from the borehole, these liners were capped and labeled and each sample was shipped to the laboratory in the liner. Therefore, the replicate concentrations measured by the laboratory reflect the natural matrix variability inherent in the surface soil at the Indiana ANGB. Field RPD values were calculated only for compounds and elements detected above the contract required detection limits (CRDLs) in both replicate pair samples and only for those compounds and elements not considered to be common laboratory contaminants (e.g., methylene chloride). Toluene was detected in one soil replicate pair (i.e., SB1A-3-4 and SB1A-3-4R). The RPD value was calculated at 141 percent. All other VOC, SVOC, and TPH RPDs values met the evaluation criteria. Priority pollutant metals replicate RPD values met the evaluation criteria, except for lead (i.e., 86 percent) in one soil replicate pair (i.e., SB1-3-3 and SB12-3-3R). Based on these RPD results and the acceptable QC results, the sample collection DQO for reproducibility is considered to have been met. A comprehensive discussion of all replicate sample results is presented in Section F.2.4.

F.1.1.2 Accuracy

Accuracy was defined as the degree of difference between measured or calculated values and the true value. The closer the numerical value of the measurement approaches the true value, or actual concentration, the more accurate the measurement is. Analytical accuracy is expressed as the percent recovery of a compound or element that has been added to the environmental sample at a known concentration before analysis. The following equation was used to calculate percent recovery:

$$\frac{A_r - A_o}{A_f} \times 100$$

where:

 A_r = Total compound or element concentration detected in the spiked sample

A_o = Concentration of the compound or element detected in the unspiked sample

 A_f = Concentration of the compound or element added to the sample.

Laboratory accuracy was qualitatively assessed by evaluating the sample holding times, method blank, tuning and mass calibration (gas chromatography/mass spectrometry [GC/MS] only), system performance compound and surrogate recovery (GC/MS and GC, respectively, only), internal standard (GC/MS only), Laboratory Control Sample (LCS) and method blank spike recovery, and initial and continuing calibration results calculated from all analyses conducted on environmental samples.

Seven (of 150 values), three (of 110 values), and one (of 18 values) percent recovery values were outside the required control limits. All supporting VOC, SVOC, and pesticide/PCB information cited above was qualitatively evaluated with respect to the analytical accuracy. Selected data validation qualifiers were applied to the VOC environmental sample results due to method blank interference (i.e., methylene chloride), internal standard performance, and poor surrogate recoveries. Selected data validation qualifiers were applied to the SVOC environmental sample results due to the exceeded holding times, internal standard performance, and poor surrogate recoveries. Undetected compounds in three soil samples and two groundwater samples were rejected due to the exceeded holding times. In addition, two soil samples and three groundwater samples were rejected due to poor surrogate recoveries. Of the qualified SVOC data points these values have the greatest adverse impact on the environmental data quality. On pesticide compound (i.e., 4,4'-DDT) in one water sample was rejected due to matrix spike recovery. Selected data validation qualifiers were applied to the pesticide/PCB environmental samples due to poor surrogate recoveries.

Data validation qualifiers were applied to 17 antimony, 6 arsenic and 10 lead concentrations to indicate that these values were rejected due to unacceptable (i.e., less than 30 percent recovery) matrix spike recoveries. Mercury in one groundwater sample was rejected due to the exceeded holding time. In addition, data validation qualifiers were applied to

numerous other priority pollutant metals concentrations to indicate that the matrix spike recoveries were outside the applicable control limits. Despite these values, no systematic laboratory error was detected, since all LCS criteria for soil and water samples were met. As a result, all associated soil and groundwater samples data were qualified for data validation purposes, as required by EPA validation quidelines; however, the results are considered to have little impact on the overall data quality. All supporting priority pollutant metals QC information cited above also was qualitatively evaluated with respect to the analytical accuracy DQO. Of this information, numerous data points in selected environmental samples were estimated due to method blank interference and mercury in selected samples was estimated due to the exceeded holding time. Based on the evaluation of the MS/MSD results and the associated QC results summarized in Section F.3, the overall laboratory accuracy is acceptable, and as such, the analytical DQO for accuracy was met, except where noted.

Sampling accuracy was maximized by adherence to the strict QA program presented in DOE/HWP-65/R1. All procedures (i.e., soil boring and monitoring well installation, soil and groundwater collection procedures, equipment decontamination, and health monitoring equipment calibration and operation) used during the Indiana ANGB SI were documented as standard operating procedures (SOPs). Field QC blanks (i.e., trip blanks, field blanks, and equipment blanks) were prepared to ensure that all samples represent the particular site from which they were collected, asses any cross contamination that may have occurred, and qualify the associated analytical accordingly.

Data validation qualifiers were applied to the methylene chloride, toluene, and acetone in 10 selected (i.e., 3 groundwater and 7 soil samples) environmental samples to indicate that these compounds were considered not detected due to associated field QC blank interference. These samples were validated using the highest concentration of the applicable interferent detected in the associated field QC blank. Data validation qualifiers were applied to selected priority pollutant metals (i.e., predominantly cadmium, cooper, lead, sodium, and zinc) and TDS detected in soil and groundwater samples to indicate that these concentrations are considered estimated, since the concentrations detected in the environmental samples did not exceed five times that detected in the associated field QC blank. Despite the data validation qualifiers, these

field QC blanks are not considered to have adversely impacted the soil sample data quality, since metals are relatively nonvolatile and the possibility of cross contamination between field QC blanks and soil samples is considered remote. Therefore, it is unlikely that the water used to prepare the field QC blanks was a source of those elements and TDS detected in the associated groundwater samples, since the bailer was effectively raised numerous times with the sample media during the well preparation activities. Based on an evaluation of the compounds and elements detected in the field QC blanks, the overall field accuracy is acceptable, except where noted. As a result, the field DQO for accuracy is considered to have met. A comprehensive discussion of the field QC results is presented in Section F.2.

F.1.1.3 Representativeness

Representativeness was defined as the degree to which the data accurately and precisely represent a characteristic of a population, parameter variations at a sampling location, a process condition, or an environmental condition. Sample representativeness was ensured during the SI by collecting sufficient samples of a population medium, properly distributed with respect to location and time. Representativeness was assessed by reviewing the drilling techniques and equipment; well installation procedures and materials; and sample collection methods, equipment, and sample containers used during the Indiana ANGB SI, in addition to the onsite GC analysis results and evaluating the RPD values calculated from the duplicate samples and the concentrations of interferents detected in the field and laboratory QC blanks. The reproducibility of a representative set of samples reflects the degree of heterogeneity of the sampled medium, as well as the effectiveness of the sample collection techniques.

All monitoring wells were installed using hollow stem auger drilling techniques. This method is commonly used to install monitoring wells to depths less than 100 feet. All samples were collected using the split-spoon driven in front of the auger. As originally specified in the project Work Plan, California ring samplers (i.e., brass or stainless steel liners inserted into a split-spoon sampler) were to be used to collect all soil samples. All other data are considered to be representative.

Based on the evaluation of the factors described above and summarized in Section F.3 the samples collected during the SI are considered representative of the environmental condition at the Indiana ANGB.

F.1.1.4 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared to another and is limited to the other PARCC parameters, because only when precision and accuracy are known can one data set be compared to another. To optimize comparability, only the specific methods and protocols that were required by DOE/HWP-65/R1 were used to collect and analyze samples during the Indiana ANGB SI. By using consistent sampling and analysis procedures, all data sets were comparable within the sites at the Indiana ANGB, between sites at the installation, or among ANGB facilities nationwide, to ensure that remedial action decisions and priorities were based on a consistent data base. Comparability also was ensured by the analysis of EPA reference materials, establishing that the analytical procedures used were generating valid data.

All samples collected in 1990 and 1991 for VOC and SVOC analyses were analyzed using EPA solid waste methods and the March 1990 EPA CLP Statement of Work (SOW), respectively. All samples collected for pesticides/PCBs, priority pollutant metals, TPH were analyzed using EPA solid waste methods. Water samples collected for oil and grease and TDS analyses were analyzed using EPA waste water methods.

Based on the precision and accuracy assessment presented above, the data collected during the SI are considered to be comparable with the data collected during previous investigations.

F.1.1.5 Completeness

Completeness was defined as the percentage of valid data obtained from a measurement system. For data to be considered valid, they must have met all acceptance criteria, including accuracy and precision, as well as any other criteria specified by the analytical methods used. Based on the evaluation of the field and laboratory QC results presented in Sections F.2 and F.3,

99.4 percent of the sample data collected for VOC analyses; 91 percent of the sample data collected for SVOC analyses; 99.7 percent of the sample data collected for pesticide/PCB analyses; 98.5 percent of the sample collected for priority pollutant metals analyses; and 100 percent of the sample data collected for BTEX, TPH, and TDS analyses were used as the basis for recommendations presented in this report.

Project completeness was defined as the percentage of data used to prepare a preliminary risk evaluation and upon which recommendations for the site remediation are based. For analytical data to be considered usable for risk assessment and remediation recommendations, they must be satisfactorily validated. Rejected (i.e., due to holding time, surrogate and matrix spike recoveries) values and concentrations reported for all analyses were not used in the risk estimates or for remediation recommendations due to the increased potential of using the concentrations of false positive compounds and elements or omitting compounds or elements (i.e., false negatives) that may have an adverse impact on human health. As a result, 564 SVOCs, 1 pesticide/PCB, and 35 priority pollutant metals data points were rejected, and as a result, were not included in preliminary risk evaluation. A complete list of these data points is presented in Table F-2.

F.2 FIELD QUALITY CONTROL ASSESSMENT

Nineteen Eleven trip blanks, 7 2 field blanks, 14 4 equipment blanks, and 7 4 field replicates were collected and analyzed for the same compounds and using the same laboratory techniques as those used for the 95 environmental samples. The analytical results obtained from the field QC blanks are used to assess the efficiency and effectiveness of the sample collection, handling, and equipment decontamination procedures used in the field. Table F-2a contains a cross-reference of environmental samples to the associated field QC blank sample.

F.2.1 Trip Blanks

Trip blanks were prepared by the NET Laboratory (former SAIC Laboratory), located in San Diego, California. These blanks were prepared with American Society for Testing and Materials (ASTM) Type II water preserved with HCl to a pH of less than 2, sent to the Indiana ANGB, stored with the unused sample bottles, and returned to the laboratory with each cooler

Table F-2. List of Rejected Data

| Sample Identification | Analysis | Compound/Element Impacted | Cause QC Result |
|--------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| EW-05 | svoc | All compounds | Holding Time |
| MW4-02 | svoc | All compounds | Holding Time |
| SB1A-1-2 (2nd round) | svoc | All compounds except: diethylphthate, phenonthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthrene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3- cd)pyrene, benzo(g,h,i)perylene | Holding Time |
| SB1A-1-3 (2nd round) | svoc | All compounds except: pyrene | Holding Time |
| SB1-2-5R (2nd round) | svoc | All compounds | Holding Time |
| P-2 | svoc | All compounds | Surrogate recoveries |
| GW1-1 | svoc | All compounds | Surrogate recoveries |
| GW1-1RE | svoc | All compounds | Surrogate recoveries |
| SB1-2-5R | svoc | All compounds | Surrogate recoveries |
| SB1-2-5 | svoc | All compounds | Surrogate recoveries |
| MW2-01 | Pesticide/PCB | 4,4'-DDT | Spiked Sample |
| MW4-02 | Priority Pollutant Metals | Mercury | Holding Time |
| SB2-01-01 | Priority Pollutant Metals | Antimony | Spiked Sample |
| SB2-01-19 | Priority Pollutant Metals | Antimony | Spiked Sample |
| SB2-02-01 | Priority Pollutant Metals | Antimony | Spiked Sample |
| SB2-03-01 | Priority Pollutant Metals | Antimony | Spiked Sample |
| SB2-04-01 | Priority Pollutant Metals | Antimony | Spiked Sample |
| SB4-01-01 | Priority Pollutant Metals | Antimony | Spiked Sample |
| SB4-01-02 | Priority Pollutant Metals | Antimony | Spiked Sample |
| SB4-02-01 | Priority Pollutant Metals | Antimony | Spiked Sample |
| SB4-02-02 | Priority Pollutant Metals | Antimony | Spiked Sample |
| SB4-03-02 | Priority Pollutant Metals | Antimony | Spiked Sample |
| SB4-04-01 | Priority Pollutant Metals | Antimony | Spiked Sample |

Table F-2. List of Rejected Data (Continued)

| Sample Identification | Analysis | Compound/Element Impacted | Cause QC Result |
|--------------------------|---------------------------|---------------------------|--------------------|
| SB4-04-02 | Priority Pollutant Metals | Antimony | Spiked Sample |
| SB4-05-01 | Priority Pollutant Metals | Antimony | Spiked Sample |
| SB4-05-02 | Priority Pollutant Metals | Antimony | Spiked Sample |
| SD4-01 | Priority Pollutant Metals | Antimony | Spiked Sample |
| SD4-02 | Priority Pollutant Metals | Antimony | Spiked Sample |
| SB4-1-1 | Priority Pollutant Metals | Lead | Spiked Sample |
| SB4-1-2 | Priority Pollutant Metals | Lead | Spiked Sample |
| SB4-1-6 | Priority Pollutant Metals | Lead | Spiked Sample |
| SB3-2-2 | Priority Pollutant Metals | Lead | Spiked Sample |
| SB3-2-1 | Priority Pollutant Metals | Lead | Spiked Sample |
| SB3-1-6 | Priority Pollutant Metals | Lead | Spiked Sample |
| SB3-1-9 | Priority Pollutant Metals | Lead | Spiked Sample |
| SB4-2-1 | Priority Pollutant Metals | Lead | Spiked Sample |
| SB4-2-2 | Priority Pollutant Metals | Lead | Spiked Sample |
| SB3-1-1 | Priority Pollutant Metals | Lead | Spiked Sample |
| SB1A-1-5 | Priority Pollutant Metals | Arsenic | Spiked Sample |
| SB1A-1-5R | Priority Pollutant Metals | Arsenic | Spiked Sample |
| SB1-2-5 | Priority Pollutant Metals | Arsenic | Spiked Sample |
| SB1-2-5R | Priority Pollutant Metals | Arsenic | Spiked Sample |
| SB1A-3-4 | Priority Pollutant Metals | Arsenic | Spiked Sample |
| SB1A-3-4R | Priority Pollutant Metals | Arsenic | Spiked Sample |

| SAIC | Laboratory | Associated | Table 2a. F Associated | ield QC to Environ Associated | nmental San SAIC | nple Cross Laboratory | - Reference Associated | Associated | Associated |
|---------------------|-----------------------|---------------------|---------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Sample | Sample | Field | Trip | Equipment | Sample | Sample | Field | Trip | Equipment |
| <u>ID</u> | <u>ID</u> | Blank | Blank | Blank | ID | ID . | Blank | Blank | Blank |
| WATER SA | UMPLES (1990 | 9) | | | SOE, SAMP | LES (1990) | | | |
| FB-01 | 90021708 | NA | NA | NA | SB1-01-12 | 90021701 | FB-01,-02 | TB-01 | EW-01,-02 |
| FB-02 EW-01 | 90021709 90021710 | NA NA | NA NA | NA NA | SB1-01-11 SB1-03-02 | 90021702 90021703 | FB-0102 FB-01,-02 | TB-01 TB-02 | EW-01,-02 EW-01,-02 |
| EW-02 | 90021711 | NA NA | NA NA | NA NA | SB1-03-05 | 90021703 | FB-01,-02 | TB-02 | EW-01,-02 |
| TB-01 | 90021712 | NA | NA | NA. | SB1-03-18 | 90021705 | FB-0102 | TB-02 | EW-01,-02 |
| TB-02 | 90021713 | NA | NA | NA | SB-B-01 | 90021706 | FB-01,-02 | TB-02 | EW-01,-02 |
| TB-03 TB-04 | 90021714 | NA | NA | NA NA | SB-B-02 SB1-02-03 | 90021707 90021801 | FB-01,-02 | TB-02 TB-04 | EW-01,-02,-04 |
| 18-03 EW-03 | 90021807 90021808 | NA NA | NA NA | NA NA | SB1-02-03R | | FB-01,-02 FB-01,-02 | TB-04 | EW-03,-04 EW-03,-04 |
| EW-04 | 90022314 | NA | NA | NA. | SB1-02-16 | 90021803 | FB-01,-02 | TB-04 | EW-03,-04 |
| TB-05 | 90022315 | NA | NA | NA | SB2-01-01 | 90021804 | FB-0102 | TB-04 | EW-0304 |
| EW-05 | 90022401 | NA | NA | NA | SB2-01-02 | 90021805 | FB-01,-02 | TB-04 | EW-03,-04 |
| TB-06 EW-06 | 900224TB 90023605 | NA NA | NA NA | NA NA | SB2-01-19 SB2-02-01 | 90021806 90022301 | FB-01,-02 FB-01,-02 | TB-04 TB-06 | EW-03,-04 EW-03,-04,-05 |
| FB-03 | 90023606 | NA | NA | NA | SB2 -03 - 01 | 90022302 | FB-01,-02 | TB-05 | EW-03,-04,-05 |
| TB-07 | 900236TB | NA | NA | NA | SB2-04-01 | 90022303 | FB-01,-02 | TB-06 | EW-03,-04,-05 |
| MW4-02 | 90023901 | FB-03 | TB-06 | EW-05,-06,-08,-09 | | 90022304 | FB-01,-02 | TB-05 | EW-03,-04 |
| TB-08 | 90023902 | NA NA | NA NA | NA NA | SB4-01-02 | 90022305 | FB-01,-02 | TB-05 | EW-03,-04,-05 |
| P-2 TB-09 | 90024801 90024802 | FB-01,-02,-03 | | EW-05,-06,-07,-08 | SB4 -02 - 01 | 90022306 90022307 | FB-01,-02 | TB-05 TB-05 | EW-03,-04,-05 EW-03,-04,-05 |
| EW-07 | 90024802 | NA NA | NA NA | NA NA | SB4-02-02 SB4-03-01 | 90022307 | FB-01,-02 FB-01,-02 | TB-05 | EW-03,-04,-05 |
| MW2-01 | 90024902 | FB-01,-02,-03 | TB-10 | EW-04,-07,-08 | SB4-03-02 | 90022309 | FB-01,-02 | TB-06 | EW-03,-04,-05 |
| TB-10 | 90024903 | NA | NA | NA NA | SB4-04-01 | 90022310 | FB-01,-02 | TB-05 | EW-03,-04,-05 |
| TB-11 | 90024904 | NA NA | NA. | NA | SB4-04-02 | 90022311 | FB-01,-02 | TB-05 | EW-03,-04,-05 |
| MW1-02 | 90025101 | FB-01,-02,-03 | TB-11 | EW-07,-08,-09 | \$B4-05-01 | 90022312 90022313 | FB-01,-02 | TB-06 | EW-03,-04,-05 |
| MW1-01 EW-08 | 90025102 90025103 | FB-01,-02,-03 NA | TB-11 NA | EW-07,-08,-09 NA | SB4-05-02 SD4-01 | 90022313 90022402 | FB-01,-02 FB-0102 | TB-05 TB-06 | EW-03,-04,-05 EW-03,-05 |
| EW-09 | 90025104 | NA NA | NA NA | NA NA | SD4-02 | 90022403 | FB-01,-02 | TB-06 | EW-03,-05 |
| P-8 | 90025105 | FB-01,-02,-03 | TB-12 | EW-08,-09 | SB1-04-01 | 90023601 | FB-01,-02,-03 | TB-07 | EW-03,-05,-06 |
| HT-01 | 90025106 | NA | NA | NA | SB1-04-02 | 90023602 | FB-01,-02,-03 | TB -07 | EW-03,-05,-06 |
| TB-12 | 90025107 | NA | NA | NA | SB1-04-03 SB1-04-04 | 90023603 90023604 | FB-01,-02,-03 FB-01,-02,-03 | TB-07 TB-07 | EW-03,-05,-06 EW-03,-05,-06 |
| WATER SA | MPLES (1991 | ע | | | SOIL SAMP | LES (1991) | | | |
| TB10-30-9 | 1 13113 | NA | NA | NA | SB4-1-1 | 13110, 13115 | FB4-1 | TB10-30-91 | EB3-1,4-1 |
| TB10-31-9 | | NA | NA | NA | SB4-1-2 | 13111, 13116 | FB4-1 | TB10-30-91 | EB3-1.4-1 |
| EB3-1 | 13179, 13187 | NA | NA | NA | SB4-1-6 | 13112, 13117 | FB4-1 | TB10-30-91 | EB3-1.4-1 |
| EB4-1 | 13194, 13203 | NA | NA | NA | SB3-1-1 | 13109, 13114 | FB4-1 | TB10-30-91 | EB3-1,4-1 |
| FB4-1 TB11-1-91 | 13195, 13204 | NA NA | NA NA | NA NA | SB3-2-2 | 13173, 13181 | FB4-1 FB4-1 | TB10-31-91 TB10-31-91 | EB3-1.4-1 EB3-1.4-1 |
| FB1-1 | 13196 13299, 14223 | NA NA | NA NA | NA NA | SB4-2-2 SB3-2-1 | 13176, 13186 13174, 13182 | FB4-1 | TB10-31-91 | EB3-1.4-1 |
| GW1-1 | 13300 | FB1-1 | TB11-3-91 | EB1-1,1A-1,4-1 | SB4-2-1 | 13177, 13185 | FB4-1 | TB10-31-91 | EB3-1,4-1 |
| TB11-3-91 | | NA | NA | NA | SB3-1-6 | 13175, 13183 | FB4-1 | TB10-31-91 | EB3-1,4-1 |
| EB1A-1 | 14266, 14276 | NA | NA | NA | SB3-1-9 | 13176, 13184 | FB4-1 | TB10-31-91 | EB3-1.4-1 |
| EB1-1 | 14265, 14275 | NA . | NA OF ALL | NA . | SB4-3-1 | 13191, 13200 | FB4-1 | TB11-1-91 | EB4-1 |
| MW1-02 TRIP BLK. | 14267, 14277 14268 | FB1-1 NA | TB11-05-91 NA | EB1-1, 1A-1 NA | SB4-3-2 SB4-3-4 | 13192, 13201 13193, 13202 | FB4-1 FB4-1 | TB11-1-91 TB11-1-91 | EB4-1 EB4-1 |
| FB2-1 | 14360 | NA NA | NA. | NA NA | SB1-1-1 | 13188, 13197 | FB4-1 | TB11-1-91 | EB4-1 |
| EB2-1 | 14361 | NA. | NA | NA. | SB1-1-2 | 13189, 13198 | FB4-1 | TB11-1-91 | EB4-1 |
| MW1-01 | 14354 | FB2-1 | TB11-6-91 | EB2-1 | SB1-1-3 | 13190, 13199 | FB4-1 | TB11-1-91 | EB4-1 |
| MW2-01 | 14355 | FB2-1 | TB11-6-91 | EB2-1 | BG1-1-1 | 13278, 14202 | FB1-1 | TB11-3-91 | EB1-1, IA-1, 4-1 |
| MW2 -01R | 14356 | FB2-1 | TB11-6-91 | EB2-1 | BG1-1-2 | 13279, 14203 | FB1-1 | TB11-3-91 | EB1-1, 1A-1, 4-1 |
| MW4-02 MW4-02R | 14358 14359 | FB2-1 FB2-1 | TB11-6-91 TB11-6-91 | EB2-1 EB2-1 | BG1-1-3 BG1-1-4 | 13280, 14204 13281, 14205 | FB1-1 FB1-1 | TB11-3-91 TB11-3-91 | EB1-1, 1A-1, 4-1 EB1-1, 1A-1, 4-1 |
| MW4-01 | 14357 | FB2-1 | TB11-6-91 | EB2-1 | BG2-1-1 | 13282, 14206 | FB1-1 | TB11-3-91 | EB1-1, 1A-1, 4-1 |
| TB11-6-91 | 14362 | NA | NA | NA NA | BG2-1-2 | 13283, 14207 | FB1-1 | TB11-3-91 | EB1-1, 1A-1, 4-1 |
| P-8 | 14398 | FB2-1 | TB11-7-91 | EB2-1 | BG2-1-3 | 13284, 14208 | FB1-1 | TB11-3-91 | EB1-1,1A-1,4-1 |
| P-1 | 14397 | FB2-1 | TB11-7-91 | EB2-1 | SB1-2-1 | 13285, 14209 | FB1-1 | TB11-3-91 | EB1-1, 1A-1, 4-1 |
| TB11-7-91 | 14399 | NA | NA | NA | SB1-2-2 SB1-2-3 | 13286, 14210 13287, 14211 | FB1-1 FB1-1 | TB11-3-91 TB11-3-91 | EB1-1, 1A-1, 4-1 EB1-1, 1A-1, 4-1 |
| | | | | | SB1-2-3 SB1-2-7 | 13288, 14212 | FB1-1 | TB11-3-91 | EB1-1, 1A-1, 4-1 EB1-1, 1A-1, 4-1 |
| | | | | | SB1-1-7 | 13289, 14222 | FB1-1 | TB11-3-91 | EB1-1, 1A-1, 4-1 |
| | | | | | SB1A-1-1 | | FB1-1 | TB11-3-91 | EB1-1, 1A-1, 4-1 |
| | | | | | | 13291, 14214 | FB1-1 | TB11-3-91 | EB1-1,1A-1,4-1 |
| | | | | | SB1A-1-3 | | FB1-1,2-1 | | EB1-1, 1A-1, 2-1, 4- |
| | | | | | | 13293, 14216 | FB1-1,2-1 | TB11-3-91 | EB1-1, 1A-1, 2-1 EB1-1, 1A-1, 4-1 |
| | | | | | | 13294, 14217 13295, 14218 | FB1-1 FB1-1 | TB11-3-91 TB11-3-91 | EB1-1, 1A-1, 4-1 EB1-1, 1A-1, 4-1 |
| | | | | | SB1A-2-3 | | FB1-1 | TB11-3-91 | EB1-1, 1A-1, 4-1 |
| | | | | | | 13297, 14220 | FB1-1 | TB11-3-91 | EB1-1, 1A-1, 4-1 |
| | | | | | | 13298, 14221 | FB1-1 | TB11-3-91 | EB1-1,1A-1,4-1 |
| | | | | | | 14264, 14274 | FB1-1 | TB11-7-91 | EB1-1, 1A-1, 2-1 |
| | | | | | SB1A-3-2 | 14263, 14273 | | TB-11-05-91 | |
| | | | | | CB1_2 - 1 | | | | |
| | | | | | SB1-3-1 SB1-3-2 | 14259, 14269 14260, 14270 | | TB - 11 - 05 - 91 TB - 11 - 05 - 91 | |
| | | | | | SB1-3-1 SB1-3-2 SB1-3-3 | 14260, 14270 14261, 14271 | FB1-1 | TB-11-05-91 TB-11-05-91 TB-11-05-91 | EB1-1,1A-1 |
| | | | | | SB1-3-2 SB1-3-3 SB1-3-3R | 14260, 14270 14261, 14271 14262, 14272 | FB1-1 FB1-1 FB1-1 | TB-11-05-91 TB-11-05-91 TRIP BLK. | EB1-1,1A-1 EB1-1,1A-1 EB1-1,1A-1 |
| | | | | | SB1-3-2 SB1-3-3 SB1-3-3R SB1A-1-5 | 14260, 14270 14261, 14271 14262, 14272 14348 | FB1-1 FB1-1 FB1-1 FB2-1 | TB-11-05-91 TB-11-05-91 TRIP BLK. TB11-6-91 | EB1-1, 1A-1 EB1-1, 1A-1 EB1-1, 1A-1 EB2-1, 4-1 |
| | | | | | SB1-3-2 SB1-3-3 SB1-3-3R SB1A-1-5 SB1A-1-5R | 14260, 14270 14261, 14271 14262, 14272 14348 14349 | FB1-1 FB1-1 FB1-1 FB2-1 FB2-1 | TB-11-05-91 TB-11-05-91 TRIP BLK. TB11-6-91 TB11-6-91 | EB1-1, 1A-1 EB1-1, 1A-1 EB1-1, 1A-1 EB2-1, 4-1 EB2-1 |
| | | | | | SB1-3-2 SB1-3-3 SB1-3-3R SB1A-1-5 SB1A-1-5R SB1A-3-4 | 14260, 14270 14261, 14271 14262, 14272 14348 14349 14350 | FB1-1 FB1-1 FB1-1 FB2-1 | TB-11-05-91 TB-11-05-91 TRIP BLK. TB11-6-91 TB11-6-91 TB11-6-91 | EB1-1, 1A-1 EB1-1, 1A-1 EB1-1, 1A-1 EB2-1, 4-1 |
| | | | | | SB1-3-2 SB1-3-3 SB1-3-3R SB1A-1-5 SB1A-1-5R | 14260, 14270 14261, 14271 14262, 14272 14348 14349 14350 | FB1-1 FB1-1 FB1-1 FB2-1 FB2-1 FB2-1 | TB-11-05-91 TB-11-05-91 TRIP BLK. TB11-6-91 TB11-6-91 | EB1-1, 1A-1 EB1-1, 1A-1 EB1-1, 1A-1 EB2-1, 4-1 EB2-1 EB2-1 |
| | | | | | SB1-3-2 SB1-3-3 SB1-3-3R SB1A-1-5 SB1A-1-5R SB1A-3-4 SB1A-3-4R SB1-2-5 SB1-2-5R | 14260, 14270 14261, 14271 14262, 14272 14348 14349 14350 14351 14352 14353 | FB1-1 FB1-1 FB1-1 FB2-1 FB2-1 FB2-1 FB2-1 FB2-1 FB2-1 | TB-11-05-91 TB-11-05-91 TRIP BLK. TB11-6-91 TB11-6-91 TB11-6-91 TB11-6-91 TB11-6-91 | EB1-1, 1A-1 EB1-1, 1A-1 EB1-1, 1A-1 EB2-1, 4-1 EB2-1 EB2-1 EB2-1 EB2-1 EB2-1 EB2-1 |
| | | | | | SB1-3-2 SB1-3-3 SB1-3-3R SB1A-1-5 SB1A-1-5R SB1A-3-4 SB1A-3-4R SB1-2-5 | 14260, 14270 14261, 14271 14262, 14272 14348 14349 14350 14351 14352 | FB1-1 FB1-1 FB1-1 FB2-1 FB2-1 FB2-1 FB2-1 FB2-1 | TB-11-05-91 TB-11-05-91 TRIP BLK. TB11-6-91 TB11-6-91 TB11-6-91 TB11-6-91 TB11-6-91 | EB1-1, 1A-1 EB1-1, 1A-1 EB1-1, 1A-1 EB2-1, 4-1 EB2-1 EB2-1 EB2-1 EB2-1 EB2-1 |

containing the environmental samples to be analyzed for VOCs using EPA Method 8240 and the March 1990 EPA CLP SOW. Table F-2b summarizes the concentrations of the detected VOCs in the trip blank samples collected during Indiana ANGB SI.

Twelve Eleven trip blanks were collected and analyzed for VOCs using EPA Method 8240 and 7 trip blanks were collected and analyzed for VOCs using the March 1990 CLP SOW. Methylene chloride was detected in TB-04 (150 μ g/L), TB-05 (3J μ g/L), TB-07 (4J μ g/L), TB-08 (4J μ g/L), TB-09 (24 μ g/L), TB-10 (29 μ g/L), TB-11 (23J μ g/L), and TB-12 (4J μ g/L). Data validation qualifiers (i.e., "U[TB]) were applied to the methylene chloride detected in the MW4-02 associated with TB-08, P-2 associated with TB-09, MW2-01 associated with TB-11, SB2-02-01 and SB2-03-1 associated with TB-05, and SB2-01-19R associated with TB-07. Methylene chloride was detected in TB11-6-91 and TB11-7-91. No data validation qualifiers were applied to the methylene chloride associated with environmental samples, since the methylene chloride was detected in the laboratory blank associated with these field QC blanks, the methylene chloride concentrations were considered undetected (i.e., "U[MB]). Carbon disulfide was detected in TB-01 (3J μ g/L) and TB-02 (4J μ g/L), benzene was detected in TB-01 (4 μ g/L), TB-02 (3 μ g/L), and TB-03 (3 μ g/L), and xylenes was detected in TB-01 (27 μ g/L), TB-02 (20 μ g/L), and TB-03 (15 μ g/L). No data validation qualifiers were applied since carbon disulfide, benzene, and xylenes were not detected in the associated environmental samples. No other VOCs were detected in the trip blanks.

F.2.2 Field Blanks

Field blanks were collected to provide baseline analytical data for the water used for equipment decontamination (i.e., ASTM Type II reagent water) and in the steamcleaner equipment (i.e., potable water). They are collected at a rate of 1 per source per event. Field blanks were collected by randomly selecting sample containers from the supply, filling them with the appropriate water source, and then preserving and analyzing these blanks for the same compounds and using the same laboratory methods as those used for the associated environmental samples. Table F-2c summarizes the concentrations of the elements and compounds detected in the field blanks collected during the Indiana ANGB SI.

| | Table P-2 | b. Data Sa | Table P-2b. Data Summary: Trip Blanks | Blacks (1990) | - 122 ⁸⁰ Tack | ical Piehter V | Vine, Indiana | Air National | Gnard, Ft. W. | vac. Indiana | | | |
|-------------------------------------------|-----------|------------|---------------------------------------|---------------|--------------------------|----------------|----------------|--------------|---------------|----------------------------------------|-------|----------|----------|
| SAIC ID Number | | TB-01 | TB-02 | TB-03 | TB-04 | 1 | TB06 | TB-07 TB-06 | TB-66 | M TR-OWN | TR 10 | 110-01 | *** G# |
| Laboratory Sample Number | | 90021712 | 90021713 | 90021714 | 90021807 | | 900224TB | 900236TB | 90023902 | ************************************** | 1007 | 7460 | 71-01 |
| Associated Pield QC Samples | | ۲z | ₹ | ¥ | ۷ ۲ | Š | ž | Ž | × | ž | V. | X | |
| Parameter | Unite | | | | | | | | | • | Ē | \$ | 5 |
| VOLATILE ORGANIC COMPOU | SONO | | | | | | | | | | | | |
| Methylene Chloride | 18 | S U | S U | o s | 150 | 3.3 | ž | 7 | f 7 | 24 | * | * | . 7 |
| Carbon Disulfide | H.M. | 33 | 7 | n s | SU | 3.0 | ¥Z. | = 5 | = > | = | = | 3 | ; ; |
| Bentene | #eA. | • | | | = | | : * | 2 | = | | | 2 : |) : |
| A. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | | . 5 | • | • ; |); |) ; | <u> </u> |) } | , | • | 2 | 2 | ב י |
| I of all Ayrenes | ¥, | , | 8 | 2 | 3 U | 20 | ۲ ۲ | 2 | 20 | 2 | 2 | 2.0 | ~ |
| ric Totals | HO/L | 9 | 9 | 000 | 9 | 9 | Y. | (0) | (g) • | 9 | ¥ | × | ž |

J - endmated value
 NA - not analyzed
 U - compound/element was included in analyzia, but was not detected
 (a) Sample was incorrectly labelled on Chain-of - custody as TB-00

| Samples WIC OD | TB10-30-31 TB10-31-31 TB10-31-31 TB13 TB13 TB13 TB13 TB13 TB13 TB13 TB | TRI0-31-91 | TB11-1-91 131% NA | 196 1391 196 13301 NA NA | TRIP BLNK 14268 NA | FI. Wayne, Indian. TBII-6-91 14342 NA | (Costissed) BII = 7 - 91 1399 NA |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|---------------------------------------|------------------------------------------------|-------------------------------------------------|
| Carbon Disuffide Benache Nyfene (coa.) TIC Totale MB - compoundérie mens van also detected | 10 (6) (6) (6) (6) (6) (6) (6) (6) (6) (6) | 5 C C C C C C C C C C C C C C C C C C C | 5 U S U S U S U S U S U S U S U S U S U | 2 C C C C C C C C C C C C C C C C C C C | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | S U(MB) S U S U S U | S U(MB) |

Table F-2c. Data Summary: Field Blanks (1990 and 1991) - 122nd Tactical Fighter Wing, Indiana Air National Guard, Ft. Wavne, Indiana

| | | Indiana Air National | nonal Cuard, F | t. Wayne, India | 2 | | |
|---------------------------------------------------|------------|----------------------|-----------------|-------------------------------------------------------------------|--------------|-----------------------------------------|--------------|
| SAIC ID Number | | _ | FB-02 | FB-03 | - ISI | F132-1 | FB4-1 |
| Laboratory Sample Number | ኟ | 90021708 | 9002 I 7K) | 90023606 | 13299, 14223 | 14360 | 13195, 13204 |
| Associated Field QC Samples | | ۲× | ٧X | <z< th=""><th>ž</th><th>X</th><th>×</th></z<> | ž | X | × |
| Parameter Un | Units | | | | | • | • |
| Total Petroleum Hydrocarbons mg/L. | 2 | I UJ(IIT) | 1 UJ(171) | n1 | 10 | 10 | N. |
| · | 3 | ≺X | \ \ \ | ~ | ž | × | ח |
| TPH as Gasoline mg/L | , 5 | Ş | <u>۲</u> | <z< td=""><td>\ Z</td><td>< Z</td><td>0.05 U</td></z<> | \ Z | < Z | 0.05 U |
| | ヹ | Š | ~ | × | × | ۲Z | 0.05 U |
| TPH As Motor Oil mg/L | 7 | ₹ Z | < Z | ž | ۲ ۲ | Y | 0.5 U |
| METALS | | | | | | | |
| | • | 11 00 0 | 2001 | WILM | - | | 10 0747 |
| 8 | | 2.00 | 0.00.0 | 2.00 C | | 2: | (8),81M), v |
| | - | 2.00 0 | O (M) | 2.00 | (9)(1) | 2 | (3) (3) |
| i | 7 | 14.00 J(B) | 10.00 U | D 00:01 | 2 J(MB,B) | 2 U | 16.5 J(B) |
| | 7 | 3.40 J(MB) | 2.60 J(MB,B) | 1.40 J(MB,B) | ח | <u>n</u> . | 3 J(MB,B) |
| - | 7 | 12.00 U | 12:00 U | 12.00 U | N 9 | 0 9 | , 19 |
| Zinc | T. | 7.00 U | 80.00 | 7.00 U | 5.1 J(MB.B) | S U | 11.1 J/MB.B) |
| Total Dissolved Solids 48/L | Į. | 230 | 150 | ۲× | V.V. | Y. | VN |
| VOLATILE ORGANIC COMPOUNDS | | | | | | | |
| Mathaban Chivida | • | 11.3 | 113 | • | | 107100 | |
| | ₹ • |) (| 0 ; | 4 (| 2 : | S U(MIS) |) (|
| | ₹, |) | | 32 | 200 | | 2 |
| | 7 | S C | ç | 5 U | SU | s U | 2.0 |
| oethane | = | s O | v . | 20 | SU | S U | SU |
| | Ź. | S U | - | 92 | S U | S U | 13 |
| | ٦. | S U | v. | 20 | SU | S U | S U |
| cis-1,3-Dichloropropene | 7 | SU | 1. | n s | n s | S | n s |
| | 7 | SU | 2 | 5 U | S U | S C | 2.0 |
| Benzene | 7 | 30 | S | 30 | S U | 20 | 2 0 |
| 1,1,2,2-Tetrachloroethane µg/l. | 7 | S U | v. | S U | 5 U | S U |) S |
| | , - | s U | | 3.0 | n s | 3 6 | 2.5 |
| chzene | 7 | SU | ٠. | SU | 20 | n s | 200 |
| Styrene HR/L | 7 | SU | ٠. | . S. U. | 3 U |) S | 0.5 |
| henes | ٦ | n s | 15 | s O | DS. | 200 |) S. |
| 1,2,3-Trichtoropropane µg/L | J. | 10 U | 8.1 | D 01 | \ Z | X | ۲ ۲ |
| SEMIVOLATILE ORGANIC COMPOUNDS | SON | | | | | | |
| bis(2—Ethylhexyl)phthalate ug/ | A. | 10 13 | 12 | 11 01 | 11 01 | ======================================= | 101 |
| | بے نے | × × | ? Z |) 2 2 | 000 | 5 8 | 99 |
| | | | • | • | | | |
| ORGANOCIII.ORINE PESTICIDES/PCIIS | 183 | QN | QX | <u> </u> | CZ | ŝ | Ç |
| R . the reported value is netimated because it is | | the last the | Date of | 1111 | | | |

B - the reported value is estimated because it is greater than the Instrument Detection Limit (IDL), but less than the Contract Required Detection Limit (TRL).

IT - sample analysis holding time greater than control limit

MB-compound/element was also detected in the associated laboratory method blank J - estimated value

NA – not analyzed
ND – not detected
U – compound/element was included in analysis, but was not detected

Volatile Organic Compound Analysis--Three field blanks (i.e., FB-01, FB-02, and FB-03) were collected and analyzed for VOCs using EPA Method 8240 and 3 field blanks (i.e., FB4-1, FB1-1, and FB2-1) were collected and analyzed for VOCs using the March 1990 CLP SOW. Toluene was detected in FB-02 (6 μ g/L). Data validation qualifiers (i.e., "U[FB]") were applied to the toluene detected in SB2-01-02 and SB2-03-01. Carbon disulfide, 1,1-dichloroethane, chloroform, 1,2-dichloropropane, cis-1,3-dichloropropene, trichloroethene, benzene, 1,1,2,2-tetrachloroethane, chlorobenzene, styrene, and xylenes were detected in FB-02; methylene chloride, acetone, and chloroform were detected in FB-03; chloroform was detected in FB4-1; and methylene chloride was detected in FB1-1. No data validation qualifiers were applied, since these VOCs were not detected in the associated environmental samples. Methylene chloride was detected in FB2-1. Since methylene chloride also was detected in the laboratory method blank associated with FB2-1, the methylene chloride concentration was considered undetected (i.e., "U[MB]"). No other VOCs were detected in the field blanks.

Semivolatile Organic Compound Analysis—Three field blanks (i.e., FB-01,FB-02, and FB-03) were collected, extracted, and analyzed for SVOCs using EPA Method 8270. Three field blanks (i.e., FB4-1, FB1-1, and FB2-1) were collected, extracted, and analyzed for SVOCs using the March 1990 CLP SOW. bis(2-Ethylhexyl)phthalate was detected in FB-02 ($12\mu g/L$). No data validation qualifiers were applied, since this SVOC was not detected in the associated environmental samples.

Pesticides/PCBs Analysis--Three field blanks (i.e., FB-01, FB-02, and FB-03) were collected, extracted, and analyzed for pesticides/PCBs using EPA Method 8080. No pesticides or PCBs were detected, and as a result, data validation qualifiers were not applied.

Total Dissolved Solids (TDS) Analysis — Two field blanks (i.e., FB-01 and FB-02) were collected and analyzed for TDS using EPA Method 160.1. TDS was detected in FB-01 (i.e., 230 mg/L) and FB-02 (i.e., 150 mg/L). As a results data validation qualifiers were applied to MW4-02 (i.e., 620J[FB] mg/L), P-2 (i.e., 610J[FB] mg/L), MW2-01 (i.e., 560J[FB]

Priority Pollutant Metals -- Six field blanks (i.e., FB-1, FB-2, FB-3, FB1-1, FB2-1, and FB4-1) were collected during the Indiana ANGB SI and analyzed by the NET Laboratory for priority pollutant metals. Interferences were detected in all field blanks associated with the environmental samples. As a result, all element concentrations detected in the associated environmental samples were qualified (i.e., "J[FB]") to indicate that the element concentrations were less than five times the concentrations detected in the associated field blanks. These results are presented in the data presentation tables located in Appendix E. However, the potable water used to prepared the field blank is not considered to be a source of the elements detected in these samples nor are the QC blank results considered to have any adverse impact on the environmental data quality.

Total Petroleum Hydrocarbon and Oil and Grease Analyses -- Five field blanks (i.e., FB-01, FB-02, FB-03, FB1-1 and FB2-1) were prepared during the Indiana ANGB SI and analyzed by NET Laboratory for TPH. Two field blanks (i.e., FB2-1 and FB4-1) were prepared during the Indiana ANGB SI and analyzed by NET laboratory for oil and grease. No TPH and oil and grease interferences were detected.

F.2.3 Equipment Blanks

Equipment blanks were prepared for manual and small automated sampling equipment used to collect environmental samples. Equipment blanks were collected each day by pouring ASTM Type II reagent water through a recently decontaminated piece of equipment into a prepared sample container appropriate for the required analysis. Equipment blanks were collected at a rate of 10 percent of the samples collected. Equipment blanks were shipped to the laboratory on alternate days to be analyzed using the methods required for the environmental samples collected on the same day. Table F-2d summarizes the concentrations of the compounds and elements detected in the equipment blanks collected during the Indiana ANGB SI. The following subsections summarize the compounds and elements detected in these blanks and the impact of this interference on the environmental data quality.

| 7) NA 10 NA 10 NA 10 NA 10 NA NA NA NA NA NA NA NA NA NA NA NA NA | C Samples Units Voicearbons mg/L mg/L mg/L mg/L | NA NA NA NA NA NA NA | 90021711 NA | 90021808 | | | | | | |
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| 3 | | 9.00 J(MB,B) | Y Z | 14.00 J(MB.B) | | 6.20 J(MB) | X | 2.10 J(MB,B) | ž | 7.00 C |
| 3.1 NA 5.0 10.1 NA 10.0 2.1 NA 10.0 2.1 NA 14 0.0) NA 14 NA NDR(EHT) NA NA NA NA NA | | < Z | < | ≺X | | 3 4 | S | 7.00 U | ž | GENT CO |
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EHT — extraction holding time greater than control limit

If — sample analysis holding time greater than control limit

I — estimated value

MB — compound/element was also detected in the associated laboratory method blank

MB — compound/element was also detected in the associated laboratory method blank

R — rejected value

U — compound/element was included in analysis, but was not detected

W — post — digestion spike for Graphite Furnace Atomic Absorption (GFAA) analysis is out of control limits (85—115%), white nample absorbance is less than 50% of the spike absorbance

Table F-2d. Data Summary: Equipment Blanks (1991) - 122nd Tactical Fighter Wing, Indiana Air National Guard, Ft. Wayne, Indiana (Continued)

| | EBIA-1 | EBI-1 | EB2-1 | EB3-1 | EB4-1 |
|---------------------------------------------------------------------|---------------|-------------|------------|-------|--------|
| Laboratory Sample Number | 14266 | 14265 | 14361 | 13179 | 13194 |
| Associated Field QC Samples | | | | 1 | |
| Parameter Units | | | | | |
| Total Petroleum Hydrocarbons mg/L | 10 | 10 | 10 | 10 | YX |
| Oil And Grease mg/ | | ٧× | 10 | 10 | ٧X |
| 92 | L NA | ×× | ۲× | ٧X | ۲× |
| TPH As Diesel | | ٧× | ۲× | ۲× | 0.05 U |
| TPH As Motor Oil mg/L | | ٧× | Y X | ٧ | 0.5 U |
| METALS | | | | | |
| | 10 | 10 | 1 U | Š | × |
| | 10 | 1.8 J(B) | 1 U | × | × |
| | L 3.7 J(MB,B) | 4.3 J(MB,B) | 2 U | ٧× | \Z |
| Lead | | 10 | 10 | ۲ | 10 |
| Zinc Hell | L 8.4 J(MB,B) | 8.2 J(MB,B) | S U | × | ٧ |
| VOLATILE ORGANIC COMPOUNDS | | | | | |
| | 3.5 | S U | S U(MB) | | SU |
| | = | D 01 | D 01 | | 10 OI |
| Chloroform | ns 1 | S U | 20 | SU | SU |
| TIC Totals Mg/L | (0) o | 000 | (O) (O) | | 000 |
| SEMIVOLATILE ORGANIC COMPOUNDS | ON SC | ΩN | Q | QN | ٧× |
| TIC Total µg/L | (0) 0 | 000 | 000 | 000 | ۲ ۲ |
| OBOANOCHI OBINI BEGITCIDE ME NA NA NA NA NA NA NA NA NA NA NA NA NA | ×N | 4 2 | ** | Ž | Ž |

B - the reported value is estimated occusse a segrence constitution Limit(CRDL)

J - estimated value

MB - compound/element was also detected in the associated laboratory method blank

MA - not analyzed

ND - not detected

U - compound/element was included in analyzis, but was not detected

Volatile Organic Compound Analysis -- Five equipment blanks (i.e., EW-04, EW-06, EW-07. EW-08, and EW-09) were collected and analyzed by NET Laboratory (former SAIC Laboratory) for VOCs using EPA Method 8240. Five equipment blanks (i.e., EBI-1 EB-1, EB1A-1, EB3-1, EB4-1, and EB2-1) were collected and analyzed by the NET Laboratory for VOCs using the March 1990 CLP SOW. Methylene chloride was detected in EW-04 (3J µg/L). As a result, data validation qualifier has been applied to the SB-B-02R (6U[EB]) μ g/kg) to indicate that the concentration detected in SB-B-02R is less than 10 times than that detected in the EW-04. Methylene chloride was detected in EW-07, EW-09, and EB1A-1. Data validation qualifiers were not applied, since no methylene chloride was detected in the associated environmental samples. Methylene chloride detected in EB2-1 was qualified (i.e., "U[MB]") to indicate that methylene chloride concentration detected in EB2-1 was less than 10 times that detected in the associated laboratory method blank. Acetone was detected in EB1A-1, as a result acetone concentration in SB1-3-1 was qualified (i.e., "U[EB]") to indicate that the acetone concentration in the sample is less than that detected in the associated equipment blank. Chloroform was detected in EW-04 (21 μ g/L), EW-06 (14 μ g/L), EW-07 (25 μ g/L), EW-08 $(36 \mu g/L)$, and EW-09 $(26 \mu g/L)$ and acetone was detected in EW-07 $(21 \mu g/L)$ and EW-09 (14μg/L). No data validation qualifiers were applied since these VOCs were not detected in the associated environmental samples.

Semivolatile Organic Compound Analysis -- Five equipment blanks (i.e., EW-01, EW-03, EW-05, EW-07, and EW-09) were collected, extracted, and analyzed by the NET Laboratory for SVOCs using EPA Method 8270. Four equipment blanks (i.e., EB1-1, EB1A-1, EB3-1, and EB2-1) were collected, extracted, and analyzed by the NET Laboratory for SVOCs using the March 1990 CLP SOW. No SVOCs were detected.

Pesticides/PCBs Analysis -- One equipment blank (i.e., EW-04) were collected, extracted, and analyzed for organochlorine pesticides and PCBs using EPA Method 8080. No pesticides/PCBs were detected.

Priority Pollutant Metals -- Eight equipment blanks (i.e., EW-01, EW-03, EW-05, EW-07, EW-09, EB1A-1, EB2-1, and EB4-1) were collected and analyzed by the NET

Laboratory for priority pollutant metals. No interferences were detected in these equipment blanks at the concentrations that were greater than 5 times that detected in the associated samples, except sodium in EB1A-1. As a result, sodium concentration detected in the associated sample were qualified (i.e., "J[EB]") to indicate that the sodium concentrations were less than five times the concentrations detected in EB1A-1. These results are presented in the data presentation tables located in Appendix E.

Total Petroleum Hydrocarbon and Oil and Grease Analyses -- Ten equipment blanks (i.e., EW-01, EW-03, EW-05, EW-07, EW-08, EW-09, EB3-1, EB1-1, EB1A-1, and EB2-1) were collected and analyzed by NET Laboratory for TPH. Two equipment blanks (i.e., EB3-1 and EB3-1) were collected and analyzed by NET Laboratory for oil and grease. No TPH and oil and grease interferences were detected.

Total Dissolved Solids (TDS) Analysis -- One equipment blank (i.e., EW-08) was collected and analyzed by NET Laboratory for TDS using EPA Method 160.1. TDS was detected in EW-08 (i.e., 50 mg/L). No data validation qualifiers were applied, since no TDS was detected in the associated environmental samples at the concentration less than 5 times that detected in EW-08.

F.2.4 Field Replicates

One replicate environmental sample was collected for every 10 environmental samples, per matrix, as required by DOE/HWP-6965/R1. The RPD value of each detected compound or element was reviewed to assess the sample collection reproducibility and matrix variability. A total of 78 soil samples (i.e., soil and sediment) and 5 replicate samples, in addition to 13 water and 3 replicate samples were collected. Samples to be analyzed for VOCs were collected during the 1990 field effort in 40-mL vials immediately and the remainder of the split-spoon contents were spread onto a Teflon® board. Samples to be analyzed for SVOCs, pesticides/PCBs, and priority pollutant metals were containerized after the entire split-spoon contents were mixed as thoroughly as possible. Samples were collected in split spoon liners during the 1991 field effort. A 25 and 35 percent RPD reference value for water and soil samples, respectively, was used to determine matrix interferences that could not be overcome

values exceeded 25 and 35 RPD for the compounds and elements detected were not qualified. Table F-2e summarize the concentrations of the compounds and elements detected with the soil and groundwater replicate pour collected during the Indian ANGB SI.

Volatile Organic Compound Analysis -- Three soil (i.e., SB1A-1-5, SB1-2-5, and SB1A-3-4) and 1 groundwater (i.e., MW2-01) samples were collected during the Indiana ANGB SI and analyzed for VOCs using the March 1990 EPA CLP SOW. RPD values were not calculated for compounds not detected in both the sample and duplicate sample and for compounds detected at concentrations below the sample detection limit. The RPD values calculated for all other detected compounds were less than the applicable control limit, except toluene in SB1A-3-4 and SB1A-3-4R [141 percent]. As a results, data validation qualifiers (i.e., "J[FR]") have been added to the applicable toluene values presented in the data presentation tables located in the Appendix E to indicate soil matrix variability. The results from re-analyzed SB1-2-5 and SB1-2-5R were used to calculate RPD values.

Semivolatile Organic Analysis--One replicate soil (i.e., SB1-02-03) sample were collected, extracted, and analyzed during the Indiana ANGB SI and analyzed for SVOCs using EPA Method 8270. Four soil samples (i.e., SB1A-3-4, SB1-3-3, SB1A-1-5, and SB1-2-5) and one groundwater samples (i.e., MW2-01) were collected, extracted, and analyzed for SVOCs using the March 1990 EPA CLP SOW. RPD values were not calculated for compounds not detected in both the sample and duplicate sample, for compounds detected in one sample and reported at concentrations below the sample detection limit in the duplicate sample, for compounds commonly considered laboratory contaminants (e.g., phthalates), and for Tentatively Identified Compounds (TICs). Therefore, no RPD values were calculated for SB1A-3-4, SB1A-3-4R, SB1-3-3, SB1-3-3R, SB1A-1-5, SB1-2-5, SB1-2-5R, MW2-01, and MW2-01R. All RPD values were less than the applicable control limit.

Pesticide/PCB Analysis - No replicate field samples were collected during the Indiana ANGB SI and analyzed for pesticides/PCBs.

| 1-1.4272 FB1-1 FB1-1 FB1-1 FB1-1 S-7.1(°) 0.57 J(B,N) 3.4.1(B,N) 0.53 J(MB,B) 0.46 U 3.3 UJ(N) 0.46 U 3.3 UJ(N) 0.46 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SBI-3-3R 14862, 14272 1486, 14272 3.3 UJ(N) 3.3 UJ(N) 0.79 J(MB,B) 0.49 U 0.23 UJ(N) 0.47 U 0.23 UJ(N) 0.47 U 0.23 UJ(N) 0.47 U 0.23 UJ(N) 0.47 U 0.40 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U 400 U | |
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| bic Pr. 2c. Recults of Replicated Soil Sampling and Analysis (1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1991) for 1/20. [1990 and 1990] for 1/20. [1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1990 and 1 | |
| Seated Soil Sampling at 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | D 1 |
| Table F-2c. Results of Replicated Soil Samplin 1722s Table F-2c. Results of Replicated Soil Samplin 1722s Table F-2c. Results of Replicated Soil Samplin 1722s Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Table Tab | 4 - spirco. NA - not analyzed NA - not analyzed NA - not analyzed NA - not analyzed R - rejected value R - rejected value SSR - sample surrogate recovery outside of control limits U - compound/element was included of control limits U - compound/element was include of control limits 0 - duplicate sample analysis outside of control limits - duplicate sample analysis |
| Table F-2e. Results 122st Tacifical Fight 10C Samples Units EW-03-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-03-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-03-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 FB-01,-02-03 | ogate recovery outside ement was included in a smalysis outside of the |
| Table FI-2e. Result Table FI-2e. Result AIC ID Number Associated Field QC Samples Parameter The Hold QC Samples Parameter In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 In 1976 | N - spired NA - not amalyzed NA - rejected value R - rejected value SSR - sample surr SSR - compound/ele U - compound/ele duplicate sam |
| SAIC ID Number Laboratory Sample Number Laboratory Sample Number Laboratory Sample Number Total Petroleum Hydrocarbour Total Petroleum Hydrocarbour Aremic Beryllium Chromium Copper Lead Mercury Nickel Selenium Silver Thallium Zinc Toluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluene Troluen | |

Table F-2e. Results of Replicated Soil Sampling and Analysis (1990 and 1991) for

| 122 | 122nd Tactical Fig | l Fighter Wing, Indiana | hter Wing, Indiana Air National Guard, Ft. Wayne, Indiana (Continued) | r National Guard, Ft. Wayne, Indiana (Continu | Continued) | |
|----------------------------------|--------------------|-------------------------|-----------------------------------------------------------------------|-----------------------------------------------|-------------|----------------|
| SAIC ID Number | | SB1A-1-5 | SB1A-1-5R | SB1A-1-5 | SB1A-3-4 | SB1A-3-4R |
| Laboratory Sample Number | | 14348 | 14349 | 13293, 14216 | 14350 | 14351 |
| Associated Field QC Samples | | FB2-1 | FB2-1 | FB1-1, 2-1 | FB2-1 | FB2-1 |
| • | | TB11-6-91 | TB11-6-91 | TB11-3-91 | TB11-6-91 | TB11-6-91 |
| Parameter | Culte | EB2-1, 4-1 | | EB1-1, 1A-1, 2-1 | EB2-1 | EB2-1 |
| Total Petroleum Hydrocarbons | mg/kg | 20 C | N 05 | D 08 | N 08 | 1 U |
| INORGANICS | | | | | | |
| A -1: | Br | COLLINA | 7.0711763 | | A A THYNIA | 1011100 |
| Ammin | 9 de 18 | 5.5 C)(N) | 3.2 C3(M) | 3.2 UJ(N) | 5.5 CJ(N) | 3.2 U3(N) |
| | HILL SAN | 10:0 K(14) | | 5.7 | S. R. N. | II.o R(N) |
| Beryllium | mg/kg | 0.0 J(B) | 0.01 J(B) | 0.5 J(B) | | 0.54 J(B) |
| Cadmium | mg/kg | 0.23 U | 0.34 J(B) | 0.92 J(MB,B) | 0.71 J(B) | 0.46 J(B) |
| Chromium | mg/kg | 19.5 | 19 | 17 | | 17.4 |
| Copper | mg/kg | 42.6 | 25 | 24 J(N.*) | 43.7 | 77 |
| Lead | me/ke | 11.4 | 10.8 | 10.2 | 13.8 | 11.9 |
| Mercury | mø/ke | 0.12 UIVHT) | 0.11 III(HT) | 11.0 | 0 1 HIGHT | 0.1 LIGHT |
| Nickel | me/ke | 30.4 | 30.2 | 33.0 | 30.4 | 27.0 |
| Selenium | me/ke | 0.23 U | 0.23 UW | 0.22 [] | 0.42 J/B) | 0.24 UW |
| Silver | me/ke | 0.47 U | 0.46 U | 0.45 U | 0.46 U | 0.46 U |
| Thallium | me/ke | 0.23 U | 0.24 J(MB.B) | 0.68 J/B) | 1.1 J(MB.B) | |
| Zinc | mg/kg | 108 • | 70. | 72.7 | 95.3(*) | |
| VOI ATII R ORGANICS (SOW 300) | (3/00) | | | | | |
| Methylene Chloride | mo/ko | 98 | 31.0 | 1102 | Æ | 181 |
| Acetone | #E/Ke | 58.1 |) [|) 19 (1 19 | <u> </u> | 62 11 |
| Toluene | ue/ke | 0.09 | 440 | 9 | 640 J(FR) | 110 JER) |
| TIC Total | #g/kg | 000 | (0) 0 | 000 | (e) 0 | 000 |
| SEMINOLATILE ORGANICS (SOW 1991) | (VOL MOS) | | | | | |
| Fluoranthene | 197ke (197ke | 410 UJEHT) | 1 004 | 410 R/RHT) | 4101 | 410 LIJCSR) |
| Pyrene | ue/ke | 410 UJ(PHT) | 400 1 | 410 R/FHT | 41017 | 410 [1](SSB) |
| Benzolbifisoranthene | 0.7kg | 410 LIJ/PHT) | 400 11 | 410 R(FHT) | 41011 | 410 LIKSER) |
| Benzo(k)fluoranthene | ue/ke | 410 UJ(BHT) | 400 U | 410 R/RHT) | 410 [] | 410 [1](SSR) |
| Benzolalmene | 110/kg | 410 III(RHT) | 40011 | A10 R(RHT) | 11017 | (110) [11(SSB) |
| TIC Total | me/ke | 4990 (15) | 20420 (19) | 12600 (20) | 7610 (18) | 6240 (13) |
| of the enite observance | | 7.23 | 727.222 | 7-27 222- | 75=7 5=5: | 752 |

of the spike absorbance

B - the reported value is estimated because it is greater than the Instrument Detection Limit (IDL), but less than the Contract Required Detection Limit(CRDL)

EHT – extraction holding time outside control limits
FR – field replicate relative percent differences (RPDs) outside control limits
HT – sample analysis holding time greater than control limit

J - estimated value

MB – compound/element was also detected in the associated laboratory method blank

N – spiked sample recovery outside of control limits

R – rejected value

SSR – sample surrogate recovery outside control limits

U – compound/element was included in analysis, but was not detected

W – post – digestion spike for Graphite Furnace Atomic Absorption (GFAA) analysis is out of control limits (85–115%), while sample absorbance is less than 50%

- duplicate sample analysis outside of control limits

122nd Tactical Fighter Wing. Indiana Air National Guard, Ft. Wayne, Indiana (Continued) Table F-2e. Results of Replicated Groundwater Sampling and Analysis (1991) for

| 122 I actical Figurer wing, indiana Air Ivational Guard, Fr. Wayne, Indiana (Continued) | ng, ma | ana Aif National | Guard, Ft. Wa | /nc, indiana (1 | Continued) |
|-----------------------------------------------------------------------------------------|-----------------|------------------|---------------|-----------------|------------|
| SAIC ID Number | | MW2-01 | MW2-01R | MW4-02 | MW4-02R |
| Laboratory Sample Number | | 14355 | 14356 | 14358 | 14359 |
| Associated Field QC Samples | | FB2-1 | FB2-1 | FB2-1 | FB2-1 |
| | | TB11-6-91 | TB11-6-91 | TB11-6-91 | TB11-6-91 |
| Parameter | Units | EB2-1 | EB2-1 | EB2-1 | EB2-1 |
| Oil And Grease | mg/L | 1 U | ဇ | NA | NA |
| Total Petroleum Hydrocarbons | mg/L | 1 U | 1 U | NA | NA |
| TPH as Gasoline | mg/L | NA | NA | 0.05 U | 0.05 U |
| TPH As Diesel | mg/L | NA | NA | 0.05 U | 0.05 U |
| TPH As Motor Oil | mg/L | NA A | NA | 0.5 U | 0.5 U |
| INORGANICS | | | | | |
| Antimony | $\mu g/L$ | 14 UJ(N) | | | NA |
| Arsenic | μ g/L | 24.8 | | | NA AN |
| Beryllium | $\mu g/\Gamma$ | 1.8 J(B) | | NA NA | A'N |
| Chromium | μ g/L | 69.1 | | | NA AN |
| Copper | μ g/L | 82.3 | | | N A |
| Lead | μ g/L | 43.4 | | | 11.6 |
| Nickel | μ g/L | 76.8 | | | NA |
| Zinc | $\mu g/L$ | 179 | 165 | | NA AN |
| VOLATILEORGANICS(SOW 3/90) | • | ND | ND | N | N A |
| SEMIVOLATILEORGANICS(SOW 3/90) TIC Total Light | V 3/90) µg/L | (1) (1) | 8 (2) | AN | NA |

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B - the reported value is estimated because it is greater than the Instrument Detection Limit (IDL), but less than the Contract Required Detection Limit(CRDL)

J - estimated value

N - spiked sample recovery outside of control limits

NA - not analyzed

ND - not detected

U - compound/element was included in analysis, but was not detected

Priority Pollutant Metals - Five replicate soil (i.e., SB1-02-03, SB1-3-3, SB1A-1-5, SB1-2-5, and SB1A-3-4) and 2 groundwater (i.e., MW4-02 and MW2-01) samples were collected during Indiana ANGB SI and analyzed for priority pollutant metals using the EPA solid waste methods cited in Section F.3. RPD values were not calculated for those elements that were not detected in both the sample and duplicate sample, for elements that were detected in one sample and not detected in the duplicate sample. All RPD values were within control limits (i.e., 30 and 50 percent for water and soil samples, respectively) for all element concentrations greater than five times the CRDL in both the sample and duplicate sample, except for lead in (86 percent) in SB1-3-3 and SB1-3-3R. As a result data validation qualifiers were applied (i.e., "J[FR]") to the applicable lead values presented in the data presentation tables located in Appendix E to indicate this matrix variability.

The CRDL criteria were met for all elements detected in concentrations less than five times the CRDL in the sample or in the duplicate samples, or in both the sample and duplicate samples.

sediment samples and 11 groundwater samples were collected during the Indiana ANGB SI and analyzed for TPH using EPA Method 418.1. Five soil samples (i.e., SB1-02-03, SB1-3-3, SB1A-1-5, SB1A-3-4, and SB1-2-5) and one groundwater sample (i.e., MW2-01) was collected in duplicate. Five soil samples and 2 groundwater samples were collected during Indiana ANGB SI and analyzed for oil and grease using EPA Method 413.2. One groundwater sample (i.e., MW2-01) was collected in duplicate. No soil samples were collected in duplicate and analyzed for oil and grease. RPD values were not calculated for TPH that was not detected in both sample and duplicate or for the TPH detected in one sample and not in the duplicate sample. Therefore, RPD values were not calculated for the soil or groundwater samples.

Total Dissolved Solids (TDS) Analysis -- No replicate field samples were collected during the Indiana ANGB SI and analyzed for TDS.

F.3 LABORATORY QUALITY CONTROL ASSESSMENT

All soil and groundwater samples collected at the Indiana ANGB were analyzed using the March 1990 EPA CLP SOW for GC/MS analyses described in the Statement Of Work For Organic Analysis, Multi-Media, Multi-Concentration, EPA CLP, March 1990 (VOCs and SVOCs) and Test Methods For Evaluating Solid Waste, Physical/Chemical Methods, SW-846, Third Edition, September 1986, with 1989 revisions (pesticides/PCBs, chlorinated herbicides, and priority pollutant metals). HAZWRAP Level C documentation was required and submitted by the NET Laboratory for all analyses. All data were validated and qualified using the guidelines and specifications described in Laboratory Data Validation Functional Guidelines For Evaluating Organics Analyses, EPA CLP, February 1988 (VOCs, SVOCs, and pesticides/PCBs and ehlorinated herbicides) and Laboratory Data Validation Functional Guidelines For Evaluating Inorganics Analyses, EPA CLP, February 1988 (priority pollutant metals).

All descriptive data validation qualifiers applied to the reported values by the laboratory are reported in parentheses. Each data point has been assessed to determine whether the value is considered usable (i.e., no qualifier), usable but estimated (i.e., "J"), or not usable (i.e., "R"). All usability qualifiers are followed by the applicable laboratory or field QC qualifier, presented in parentheses and defined in the table footnotes. Usability qualifiers were not applied to values qualified by the laboratory, but were not considered to have adversely impacted by the applicable laboratory QC result (e.g., duplicate and matrix spike analysis), as per EPA CLP validation guidelines. All laboratory and data validation qualifiers used were applied to all data (i.e., detected and nondetected values), as necessary, on the comprehensive data presentation tables located in Appendix G and to the appropriate detected values summarized in the data tables presented within the SI report text. All qualifiers are defined at the bottom of each table presenting analytical data.

For the purposes of the SI, VOC TICs and SVOC TICs that could not be directly attributed to laboratory method blank or field QC blank interference were used to indicate contamination resulting from past JP-4 use at the applicable site. All TIC concentrations were added together and reported in the Section F3 data validation worksheets summary data tables

and the Appendix E presentation data tables as a single estimated value. The number of individual compounds detected was presented in parentheses adjacent to the cumulative concentration.

F.3.1 Organic Analyses

Soil and groundwater samples and field QC blanks (i.e., field blanks, equipment blanks, and trip blanks [VOC analysis only]) collected during the Indiana ANGB SI were submitted to the NET Laboratory (former SAIC Laboratory) for VOC and SVOC analyses using EPA SW 8240 and 8270, respectively, and the March 1990 CLP SOW. Also, NET Laboratory was required to perform aromatic volatile (BTEX) analyses using EPA SW 8020 and pesticide/PCB analyses using EPA SW 8080. A data quality assessment is presented in the following subsections.

F.3.1.1 Volatile Organic Compound Analysis (EPA Method 8240 and March 1990 SOW)

Fourteen soil samples, 7 groundwater samples, and 19 field QC blanks (i.e., trip blanks, field blanks, and equipment blanks) were collected and submitted for VOCs analyses using EPA Method 8240. Forty soil samples, 2 sediment samples, 6 groundwater samples and 15 field QC (i.e., trip blanks, field blanks, and equipment blanks) were collected and analyzed for VOCs by the NET Laboratory using the March 1990 CLP SOW. Data quality was evaluated using the guidelines and control limits specified for holding times, tuning and mass calibration results, initial and continuing calibration verification, method blank spike, method blank, surrogate recovery, internal standard area, and MS/MSD results. A presentation of the significant qualified sample results follows the laboratory QC results discussion. The VOC data validation worksheets are presented in Tables F-3.

Holding Times -- Holding times were defined as the maximum amount of time allowed to elapse between the date and time of sample collection and the date and time of sample analysis. The NET Laboratory was required by the SOW prepared for the SI to meet holding times of 7 days for unpreserved water samples, 14 days for preserved (i.e., sufficient hydrochloric acid to lower the pH to 2) water samples, and 14 days for soil samples collected for VOC analysis. Preservation information was either listed on the chain-of-custody forms completed during the SI or the field logbooks were consulted to verify that each water sample

| | | | £ | ble F-3a. Data | Validation Tab | Table F-3a. Data Validation Tables: Volatile Organic Compounds | ic Compounds | | | Γ |
|---------------------------------------------|------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------|-----------------------------------|-------------------------------|----------------------------------------------------------------|------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------|---|
| SAIC Sample Number | Laboratory Identification Number | Collection Date | Asalysis Date | Volatile Surrogate Recovery | Voletic MS/MSD Analyses | Volstije Blenk Analyses | Laboratory Check Sample Evaluation | Volette Tusing Mass Calibration | Initial Calibration Check | |
| WATERS VBSEPS FB-01 FB-02 | VBSBP5 90021706 90021709 | NA 8/25/50 8/25/50 | 9/05/90 9/05/90 9/05/90 | AL OK | ALL WITHIN LIMITS | NONE DETECTED TIC TOTAL=0 | _ | ALL BFB CRITERIA WITHIN CONTROL LIMITS | 90590 (CASE # VW030) DAE Y TUNE IN CONTROL: ALL SPCC RRF > 0.300 TBMB > 0.250 CCC %RSD < 30% | |
| 78-0 178-0 178-0 178-0 MS | 90021712 90021713 90021714 9002174 9002174 MSD | 8,27,790 8,27,790 8,28,590 8,28,590 8,28,590 | 9/05/90 9/05/90 9/05/90 9/05/90 9/05/90 | | | | | | | |
| WATERS VESEP6 TB-04 | VBSEP6 90021807 | NA 8/29/90 | 06/90/6 06/90/6 | All OK | | NONE DETECTED TIC TOTAL=0 | | ALL BPB CRITERIA WITHIN CONTROL LIMITS | | |
| WATERS VESEP12 EW-04 TB-05 | VBSBP12 9002314 9002315 | N 8.30/90 8/30/90 | 9/12/90 9/12/90 9/12/90 | All OK | | NONE DETECTED TIC TOTAL=0 | | ALL BFB CRITERIA WITHEN CONTROL LIMITS | | |
| WATERS VESEPT EW-06 FB-03 TB-07 | VRSBP17 90023605 90023617B | 7.4 9.06,90 9.11,90 9.06,90 | 9/17/90 9/17/90 9/17/90 | AL OK | | NONE DETECTED TIC TOTAL=0 | _ | ALL BPB CRITERIA WITHIN CONTROL LIMITS | | |

| | | Table F-3a. Data Validation Tables: Volatile Organic Compounds (Continued) | olatile Organic Compounds (Contin | led) | | |
|----------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------|---------------------------|--------------------------------|
| SAIC Sample Number | Laboratory Identification Number | Continuing Calibration Check | Volatile Internal Standard | Field Blank Analysis | Trip Blank Analysis | Equipment Blank Analysis |
| WALEAN VBSEP5 FB-01 FB-02 | VBSEP5 90021708 90021709 | 905/90 (CASE # VW030) DAILY TUNE IN CONTROL: ALL SPCC RRF50 > 0.300 TBME > 0.250 CCC %D < 25% | ALL ARBAS AND RETENTION TIMES WERE WITHIN CONTROL LIMITS | \$ \$ \$ | \$ \$\$ | \$ \$\$ |
| TB-01 TB-02 TB-03 TB-03 MS | 90021712 90021713 90021714 MS 90021714 MSD | | | \$ \$\$\$\$ | \$\$\$\$\$ | \$\$\$\$\$ |
| WATERS VRSEP6 TB-04 | VBSEP6 90021807 | 906/90 (CASB # VW030) DAILY TUNE IN CONTROL: ALL SPCC RRF50 > 0.300 TBME > 0.290 CCC %D < 25% | ALL ARBAS AND RETENTION TIMES WERE WITHIN CONTROL LIMITS | Z Z | χχ | ΧX |
| WATERS VBSEP12 EW-04 TB-05 | VBSEP12 90022314 90022315 | 9/12/90 (CASE # VW030) DAILY TUNE IN CONTROL. ALL SPCC RRF50 > 0.300 TBME > 0.230 CCC %D < 25% | ALL AREAS AND RETENTION TIMES WERE WITHIN CONTROL LIMITS | \$ \$ \$ | ŽŽŽ | * * * * |
| WATERS VBSEP17 BW-06 FB-03 TB-07 | VBSEP17 90023605 90023606 9002361B | 9/17/90 (CASE # VW030) DAILY TUNE IN CONTROL: ALL SPCC RRF90 > 0.300 TBMB > 0.250 CCC %D < 25% | ALL AREAS AND RETENTION TIMES WERE WITHIN CONTROL LIMITS | *** | *** | \$ \$\$\$ |

| | Aboutory | | | |
|---------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------|
| SAIC Sample | Identification | Sounds | Tentalively | |
| Number WATER | Number | Results | Compounds | Data Onalifier |
| WAIEKS VBSEPS FB-01 FB-02 | VBSEP5 90021706 90021709 | Note Detected Note Detected CDS=6DCA11=STCLME=7DCPA12=S DCPEs13=3J/TCB=10/BZ=6/PCA=S/BZAE=6/ | 999 | Nose Applied Nose Applied |
| TB-01 TB-02 TB-03 TB-03 MS TB-03 MSD | 90021712 90021713 90021714 90021714 MS | CLBZ=5/STY=5/KYLENES=51/ TCPA123=51 µg/L CDS=4/BZ=4/KYLENES=27 µg/L CDS=4/RZ=3/KYLENES=20 µg/L BZ=3/KYLENES=15 µg/L Not Applicable Not Applicable | 0 (0) 0 (0) 0 (0) Data Not Provided Data Not Provided | Nose Applied Nose Applied Nose Applied Nose Applied Not Applied Not Applies be |
| WATERS VESEP6 TB-04 | VBSEP6 90021807 | None Detected MTLNCL=150 µg/L | (e) (e) (e) | None Applied |
| WATERS VBSEP12 EW-DA TB-05 | VBSEP12 90022314 90022315 | None Detected MTLNCL.=31FCLME=21 µg/L MTLNCL.=31 µg/L. | © © © | Nose Applied Nose Applied |
| WATERS Vesser? Vesser? EW-06 FB-01 TB-07 | VBSEP17 90023405 90023406 900234FB | None Detected TCLME=14 µpL MTLNCL=4/IACE=32/TCLME=26 µp/L MTLNCL=43 µp/L | 5565 | None Applied None Applied None Applied |

| | | | Tab | le F-3b. Data Valie | dation Table | Table F-3b. Data Validation Tables: Volatile Organic Compounds | Compounds | | | _ |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------|--------------------------------|----------------------------------------------------------------|------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------|-------------|
| SAIC Sample Number | Laboratory Ideatification I | Collection A Date D | Asalysis Date | Volatile Surrogate Recovery | Volatile MS/MSD Analyses | Volstije Blank Anslyses | Laboratory Cleck Sampio Evaluation | Voletle Tvaing/Mess Culibration | initial Calibration Clock | |
| WATTERS VESSEPTO VESSEPTO TE-02 LCS_VW030 | VBSB719 90023901 90023902 LCS_VW080 | NA 9/12/90 9/12/90 NA | 9/19/90 9/19/90 9/19/90 | All OK | | NONE DETECTED (TIC TOTAL = 0 | PARAMETERS WITHIN CONTROL LIMITS | ALL BUB CRITERIA WITHIN CONTROL LIMITS | 91990 (CASE # VW030) DALLYTUNE IN CONTROL: ALLSPOC RRF > 0.300 TBME > 0.20 CCC MRSD < 30% | |
| WATERS VRSB72 P-2 °TB-09 | V BSB722 90024801 90024802 | NA 9/13/90 9/13/90 | 972790 972790 972790 | All OK | | NONB DETECTED TIC TOTAL=0 | | ALL BFB CRITERIA WITHIN CONTROL LIMITS | | |
| WATERS VBSEPSA EW-07 MW2-01 TB-10 TB-11 MW1-02 MW1-01 EW-08 TB-11 MS TB-11 MS TB-11 MSD | VBSEP2A 90024902 90024903 90025103 90025103 90025104 90025104 90029104 90029104 90029104 90029104 | NA 91490 91490 91490 91490 91490 91590 91590 91490 NA | 9724,90 9724,90 9724,90 9724,90 9724,90 9724,90 9724,90 9724,90 | ₩ | ALL WITHIN LIMITS | NONE DETECTED (*) ALL PARAI WITH LIMITS | AETERS N CONTROL S | ALL BFB CRITERIA WITHIN CONTROL LIMITS | 919/90 (CASE # VW044) DALLY TUNE IN CONTROL: ALL SPCC RRP > 0.300 CCC FRSD < 30% | |
| WATERS VESEP25 EW-09 P-8 HT-01 TB-12 | VBSBP25 90025104 90025105 90025105 90025107 | NA 9/16/90 9/16/90 9/16/90 | 9/25/90 9/25/90 9/25/90 9/25/90 9/25/90 | All OK | | NONB DETECTED | | ALL BPB CRITERIA WITHIN CONTROL LIMITS | | |

| | | Table F-3b. Data Validation Tables: | -3b. Data Validation Tables: Volatile Organic Compounds (Continued) | ued) | | |
|---|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------|---------------------------------------|------------------------------------------|
| - | Laboratory Identification Number | Continuing Calibration Check | Volatile Internal Standard | Field Blank Analysis | Trip Blank Analysis | Equipment Blank Analysis |
| | VBSEP19 90023901 90023902 LCS_VW030 | 91990 (CASE # VW030) DAILY TUNE IN CONTROL: ALL SPCC RRF50 > 0.300 TBME > 0.250 CCC %D < 25% | ALL AREAS AND RETENTION TIMES WERE WITHIN CONTROL LIMITS | HB-03 NA NA | AN AN AN AN | EW-06 NA NA |
| | VBSEP22 90024801 90024802 | 972/90 (CASE # VW030) DAILY TUNE IN CONTROL: ALL SPCC RRF30 > 0.300 TBME > 0.250 CCC %D < 25% | ALL AREAS AND RETENTION TIMES WERE WITHIN CONTROL LIMITS | NA FB-03 NA | AN AN AN | NA EW-06 NA |
| | VBSEP24 90024901 90024902 90024903 90024904 90025101 90025103 90024904 MSD VW044_LCS | 92490 (CASE # VW044) DAILY TUNE IN CONTROL. ALL SPCC RRF30 > 0.300 TBME > 0.290 CCC %D < 25% | ALL AREAS AND RETENTION TIMES WERE WITHIN CONTROL LIMITS | X X X X X X X X X X X X X X X X X X X | X X X X X X X X X X X X X X X X X X X | NA NA NA NA NA NA NA NA NA NA NA NA NA N |
| | VBSEP25 90025104 90025105 90025105 | 925/90 (CASE # VW044) DAILY TUNE IN CONTROL: ALL SPCC RRF30 > 0.300 TBMB > 0.250 CCC %D < 25% | ALL AREAS AND RETENTION TIMES WERE WITHIN CONTROL LIMITS | NA NA FB-03 NA NA | NA NA TB-12 NA | NA NA EW-09 NA |

| c Compounds (Continued) | Data Qualifiers | MTLNCL=SU(TB) None Applied None Applied | MTLACL=SU(TB) None Applied | None Applied MTLMCL = SU(TB) None Applied None Applied None Applied None Applied None Applied None Applied None Applied None Applied None Applied None Applied None Applied None Applied None Applied None Applied | Nose Applied Nose Applied Nose Applied Nose Applied |
|----------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| c Organi | | <u>000</u> | 999 | | |
| on Tables: Volatil | Tentatively Mentified Compounds | ¥ | | Not Performed Not Performed Not Performed Not Performed Not Performed Not Performed Not Performed Not Analyped Not Analyped | Not Performed Not Performed Not Performed Not Performed Not Performed |
| Table F-3b. Data Validation Tables: Volatile Organic Compounds (Continued) | Significant Sample Results | None Detected MTLNCL=21 µg/L MTLNCL=41 µg/L Not Applies bie | None Detected MTLNCL=4 µgL MTLNCL=24 µgL | None Detected MTLNCL = 10/ACE = 21/I CLME = 25 µg/L MTLNCL = 5 µg/L MTLNCL = 29 µg/L None Detected None Detected None Detected None Applies bla Not Applies bla Not Applies bla Not Applies bla | None Detected MTLNCL=6/ACE=14/TCLME=26 µg/L None Detected None Detected MTLNCL=4/ µg/L |
| | Laboratory Eleatification Number | VBSEP19 90023901 90023902 LCS_VW030 | VRSHP22 90024801 90024802 | VBSEP24 90024901 90024903 90024903 90025101 90025103 90025103 90025103 9002504 WBD VW044_LCS | VBSBP25 90025104 90025105 90025106 90025107 |
| | SAIC Sample Number | WATERS VEREPIO MW4-02 TB-06 LCS_VW090 | WATERS VBSBP22 P-2 TB-09 | WATERS VESSP24 EW-07 TP-10 TP-10 MW1-02 MW1-02 MW1-03 TP-11 MS TP-11 MS TP-11 MS TP-11 MS | VBSBP25 EW-09 P-6 HT-01 TB-12 |

| | | | 1 | Table F-3c. Data Validation Tables: Volatile Organic Compounds | Nion Labr | s: Volatile Organic | Compounds | | | |
|---------------------------------------------------------|----------------------------------------------------------|------------------------------------------|-------------------------------|-------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------|------------------------------------------------|---------------------------------------|---------------------------------------------------|--|
| SAIC Sample Number | Laboratory Identification Number | Collection Date | Analysis Date | Volettie Surrogate Recovery | Volatie MS/MSD Analyses | Volatile Blank Analyses | Laboratory Check Sample Evaluation | Volette Traing/Mass Calibration | le Biol Caldentina Check | |
| SOILS VBSEP6 SB-B-02 | VBSBP6 90021707 | NA 8/28/90 | 06/90/6 | ROGATES EPT BPB | | ETECTED FAL=0 | | ALL BPB CRITERIA | 8/31/90 (CASE # VS033) DALLY TUNE IN CONTROL: | |
| SB2-01-01 SB2-01-02 | 90021804 90021805 | 8/29/90 8/29/90 | 06/90/6 06/90/6 | AND SB2-01-19 (72%); AND TOL | | | | CONTROL | ALL SPCC RRF > 0.340 TBME > 0.230 CCC %RSD < 30% | |
| SB2-01-19 | 90021806 | 9/29/90 | 06/90/6 | IN SB2-01-19 (131%) | | | | | | |
| <u>.</u> | | | | | | | | | | |
| VBSEP7 SB2-02-01 SB2-03-01 SB2-04-01 | VBSEP7 9002301 9002302 9002303 | 8/30/90 8/30/90 8/30/90 | 9,07/90 9,07/90 9,07/90 | Alok | ALL WITHIN LIMITS | NONE DETECTED CTCL BELOW TICTOTAL=0 CONTROL LI ALL OTHER PARAMETER | CTCL BELOW CONTROL LIMIT: ALL OTHER PARAMETERS | ALL BFB CRITERIA WITHIN CONTROL | | |
| SB2-04-01 MS SB2-04-01 MSD LCS_VSO33 | 90022303 MS 90022303 MSD LCS_VSO33 | 8/30/90 8/30/90 NA | 9/07/90 9/07/90 9/07/90 | | | | WITHIN LIMITS | LMITS | | |
| SOLS VBSEP10 SB-B-62Re | VBSEP10 90021707R | NA 8/28/90 | 9/10/90 | ALL SURROGATES OK EXCEPT TOL IN SRRMR | | NONE DETECTED TIC TOTAL = 0 | | ALL BFB CRITERIA | | |
| SB201-19Re | 90021806R | 8/29/90 | 06/01/6 | (122%) AND SB2 - 01 - 19R (136%); AND BFB IN SB2 - 01 - 19R (72%) | | | | CONTROL | | |
| SOIL.8 VBSEP14 SB1-64-01 SB1-04-02 | V BSE P14 90023601 90023602 | 06/90/6 9/08/30 9/08/30 | 9/14/90 9/14/90 9/14/90 | TROGATES TEPT TOL | ALL WITHIN WITHIN | NONE DETECTED TIC TOTAL=0 | | ALL BFB CRITTERIA WITHIN | | |
| SB1-04-08 SB1-04-04 SB1-04-04 MS SB1-04-04 MSD | 90023608 90023604 90023604 90023604 90023608 | 06/80/6 8/06/90 9/06/90 9/06/90 | 9/14/90 9/14/90 9/14/90 | (126 %) | | | | CONTROL | | |
| SOILS VBSEP20 SB1-04-02Re | VBSEP20 90023602R | NA 9/08/90 | 06/0Z/6 06/0Z/6 | AB OK | | NONE DETECTED TIC TOTAL = 0 | | ALL BFB CRITERIA | 9/19/90 (CASE # VS033) DAILY TUNE IN CONTROL: | |
| | | | | | i | | | CONTROL | ALL STOL MAY > 0.300 TBME > 0.230 COC 9.RSD < 30% | |

| SAIC Sample Number | Laboratory Identification Number | Continuing Calibration Check | Volatile Internal Standard | Field Blank Analysis | Trip Blank Analysis | Equipment Blank Analysis |
|---------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------|----------------------------------|--------------------------------------|
| SOILS VBSEP6 SB-B-02 | VBSEP6 90021707 | 9/06/90 (CASE # VS033) DAILY TUNE IN CONTROL: | SB-B-Q BELOW AREA CONTROL LIMITFOR CBZ; CD-CH-CH-CH-CBZ; | NA FB-02 | NA TB-02 | NA EW-04 |
| SB2-01-01 SB2-01-02 | 90021804 90021805 | ALL SP.C. RRF30 > 0.500 TBME > 0.250 CCC %D < 25% | CONTROL LIMITS FOR BCM, DFB, AND CBZ; | FB-02 FB-02 | TB-04 TB-04 | EW-04 |
| SB2-01-19 | 90071806 | | ALL OTHER AREAS AND RETENTION TIMES WERE WITHIN CONTROL LIMITS | FB-02 | 20 - 8T | EW-04 |
| SOILS VBSEP7 SB2-02-01 SB2-03-01 SB2-04-01 | VBSEP7 90022301 90022302 90022303 | | ALL AREAS AND RETENTION TIMES WERE WITHIN CONTROL LIMITS | NA FB-02 FB-02 FB-02 | AN 20-8T 20-8T 20-8T | EW-QE |
| SB2-04-01 MS SB2-04-01 MSD LCS_VSO33 | 90022303 MS D 90022303 MSD LCS_VSO33 | %CC %D < 53% | | FB-02 FB-02 NA | TB-05 TB-05 NA | EW-OF EW-OF NA |
| SOILS VBSEP10 SB-B-02Re | VBSEP10 90021707R | 9/10/90 (CASE # VS033) DAILY TUNE IN CONTROL: ALL SPCC RRF30 > 0.300 | SB··B-02R AND SB2-01-19R BELOW AREA CONTROL LIMITS FOR DFB AND | R NA FB-02 | NA TB-02 | NA EW-04 |
| SB2-01-19Re | 90021806R | TBME > 0.230 CCC %D < 2.5% | CKZ; ALL OTHER AREAS AND RETENTION TIMES WERE WITHIN CONTROL LIMITS | FB-02 | TB-04 | EW-04 |
| SOILS VBSEP14 SB1-04-01 SB1-04-02 | VBSEP14 90023601 90023602 | 9/14/90 (CASE # VS033) DAILY TUNE IN CONTROL: ALL SPCC RRF50 > 0.300 | SBI-04-02 BELOW AREA CONTROL LIMIT FOR CBZ; ALL OTHER AREAS AND | NA FB-03 FB-03 | NA TB-07 TB-07 | NA EW-06 EW-06 |
| SB1-04-03 SB1-04-04 SB1-04-04 MS SB1-04-04 MSD | 90023603 90023604 90023604 MS D 90023604 MSD | 1BMB > 0.250 CCC %D < 25% | WITHIN CONTROL LIMITS WITHIN CONTROL LIMITS | FB-03 FB-03 FB-03 | 73-87 70-87 70-87 70-87 | EW -06 EW -06 EW -06 EW -06 |
| SOILS VBSEP20 SB1-04-02Re | VBSEP20 90023602R | 92090 (CASE # VS033) DAILY TUNE IN CONTROL: ALL SPCC RRF30 > 0.300 TBME > 0.250 | ALL AREAS AND RETENTION TIMES WERE WITHIN CONTP. OL LIMITS | NA FB-03 | NA TB-07 | NA EW-06 |

| SAIC Sample Number | Laboratory Identification Number | Significant Sample Rosalts | Teststively Identified Compounds | | Data Ovalifiers |
|---------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SOLS VESEP6 SB-B-02 | VBSEP6 90021707 | Nose Detected BZME= 180 pg/kg | | 99 | HXO2.4ME2PHUT,PCB.CLBZ.BBZ,STY,XY1.ENES/TCA112=UJ(SSR,IS) |
| SB2-01-01 SB2-01-02 | 50812006 10812106 | BZME-36 44/Kg BZ-64/MBZPENT-34/BZME-45/BBZ-16/ | | <u>9</u> 9 | BZME=180(SSR,IS)All other compounds=U(SSR) BZME=38U(FB) BZ=6U(FB)BZME=45U(FB) |
| SB2-01-19 | 90021806 | XYLENES=190 pg/Kg BZME=100 pg/Kg | | 0 0 | BZME = 1001(SSR,IS)/All other compounds = U1(SSR,IS) |
| SOU.S VBSBP7 SB2-03-01 SB2-06-01 SB2-04-01 | V BSEP7 90022301 90022302 90022303 | None Detected MTLNCL = 14 µg/Kg MTLNCL = 16/ACE = 70/BZME = 15 µg/Kg MTLNCL = 26/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HXO2 = 1100/BZME = 91/ACE = 820/HZME = 91/ACE = 820/HZME = 91/ACE = 820/HZME = 91/ACE = 820/HZME = 91/ACE = 820/HZME = 91/ACE = 820/HZME = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE = 91/ACE | | <u> </u> | MTLNCL=14U(TB) MTLNCL=16U(TB)/BZMB=15U(FB) Nose Applied |
| SB2-04-01 MS SB2-04-01 MSD LCS_VSO33 | 90022303 MS 90022303 MSD LCS_VSO33 | A TATALSHI MO ABAR Not Applicable Not Applicable Not Applicable | Not Analyzed Not Analyzed NA | | Not Applicable Not Applicable None Applied |
| SOLS VBSEP10 SB-B-02Re | VRSBP10 90021707R | None Detected MTLNCL=SI/BZME=120 µg/Kg | | <u> </u> | MTLNCL=6UJ(EB,SSR)BZME=120J(SSR,IS)/All other compounds emept CLME, BRME, vC cript A Arts Crist Press in Crist Child. |
| SB2-01 - 19Re | 90021805R | MTLNCL=21/BZME=240 µg/Kg | | (<u>0</u>) | All compounds except MTLNCL and BZME = U(SSR) MTLNCL = 21U(TR,SSR)All compounds except MTLNCL and BZME = U(SSR) BZME = 24U(SSR,IS)All compounds except CLME, BRME, VC,CLEA,ACE,CDS,DCE II, DCAI1,DCB12,TCI,MER,DCAI2,MER = U(IS) |
| SOIL.S VBSEP14 SB1-04-01 SB1-04-02 | VBSEP14 90023601 90023602 | None Detected BZME = 80 pg/Kg BZME = 700E pg/Kg | | 6 55 | Nose Applied All compounds encept RZME=U/(SSR)/BZME=2706(SSR,IS)/HXO2,4MB2PENT,PCR,PCA, |
| SB1-04-03 SB1-04-04 SB1-04-04 MS SB1-04-04 MSD | 90023608 90023608 90023608 MS 90023608 MSD | BZ=10BZMB=67 µg/Kg BZMB=350/CBZ=95 µg/Kg Not Applicable Not Applicable | Not Analyzed Not Analyzed | E E | CLEXCENS.TXTLENES/TCATIZ= U(IS) None Applied Not Appliedbe |
| SOILS VBSEP20 SB1-04-02Re | VBSEP20 90023602R | Nase Detected MTLNCL = 5/BZME=240 µg/Kg | | <u> </u> | MTLNCL-6U(TB) |

Footnotes to Tables F-3a through F-3c.

- On the Chain of Custody form, this sample was incorrectly identified as

Note: Tentatively Iden: 'flied Compound (TIC) analyses were not requested for VOC personnel discovered their error and did not perform TIC analyses for the remaining VOC samples. The results for these samples are denoted in the samples. The laboratory, however, performed this analysis for some of the samples. Before all of the VOCs were analyzed, though, the laboratory TIC column as "Not Performed."

NA - Not Applicable Control Limits for Water VOC Surrogate Recoveries d4-1,2-Dichloroethane (DCE): 76-114 Control Limits for Soil VOC Surrogate Recoveries Bromofluorobenzene (BFB): 86-115 d8-Toluene (TOL): 88-110 d8-Toluene (TOL): 81-117

Control Limits for Water VOC MS/MSD Percent Recoveries 1,1-Dichloroethene (DCE11): 61-145, %RPD= 14 Trichloroethene (TCE): 71-120, %RPD= 14 Benzene (BZ): 76-127, %RPD= 11 d4-1,2-Dichloroethane (DCE): 70-121 Bromofluorobenzene (BFB): 74-121

Toluene (BZME): 76-125, %RPD= 13 Chlorobenzene (CLBZ): 75-130, %RPD= 13

Control Limits for Soil VOC MS/MSD Percent Recoveries 1,1 - Dichloroethene (DCE11): 59-172, %RPD= 22

Trichloroethene (TCE): 62-137, %RPD= 24 Benzone (BZ): 66-142, %RPD= 21 Toluene (BZME): 59-139, %RPD= 21

Chlorobenzene (CLBZ): 60-133, %RPD=21 Control Limits for Soil VOC LCS Evaluations

Methylene chloride (MTLNCL): 8.1-47 Chloroform (TCLME): 7-13 Carbon tetrachloride (CTCL): 19-32 1.1.2-Trichloroethane (TCA112): 30-78 Benzene (BZ): 40-140

Tuning and mass calibration performed with Bromofluorobenzene (BFB). System Performance Check Compounds (SPCCs): Bromoform (TBME): 11-39 Chlorobenzene (CLBZ): 21-77

Chloromethane (CLME), 1,1 - Dichloroethane (DCA11), Bromoform (TBME), 1,1,22-Tetrachloroethane (PCA), and Chlorobenzene (CLBZ)

Calibration Check Compounds (CCCs):

1.2 Dichloropropane (DCPA12), Toluene (BZME), and Ethylbenzene (EBZ). Volatile internal Standard Ares Summary Compounds: Vinyl Chloride (VC), 1,1 - Dichloroethene (DCE11), Chloroform (TCLME),

Bromochloromethane (BCM)

1,4 - Diffuorobeanene (DFB)

Chlorobenzene (CBZ)

E - analyte present in concentrations above the calibration range of the Significant sample result data qualifiers:

J - analyte present between lower detection limit of instrument and lower quantitation limit.

B - analyte present in the method blank as well in the sample.

| | Volatie Internal Standards | ECALDPRA ALLANEAS. THES WEN LIMITS AND RESPECTIVE | ACM, DFB, AND CRZ ALL AREA, AND RETENTION TIMES WERE WITHIN CONTROL LINITS AND WINDOWS, RESPECTIVELY. | BCM, DPB, AND CBZ ALL AREA AND BETENTION TIMES WERE WITHIN CONTROL LIMITS AND WINDOWS, RESPECTIVELY. | ECM, DPR, AND CEZ ALL AREAS AND RETENTION TIMES WERE WITHIN CONTROL LIMITS AND WINDOWS, RESPECTIVELY. | ECM, DPB, AND CEZ ALL AREAS AND RETENTION TIMES WERE WITHIN CONTROL LIMITS AND WINDOWS, REMPECTIVELY. | MCM, DPR, AND CEZ ALL AREAS AND RETENTION THESS WERE WITHIN CONTROL LIMITS AND WITHOUTH AREAS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ] = 1-4/ RCH AS TO R [EQ | ECM, DPR. AND CEZ. ALL AREAG AND RETENTION THES WERE WITHIN CONTROL. LIMITS AND WINDOWS. RESPECTIVELY, EXCEPTINE AREA FOR [\$\overline{BQZ} - 1-1] FOR CEZ. |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| | Volatifie Tuning/Mass Calibration | INSTEPINC JUDES ALL BERTUNING AND MASS CALIBRATION CRITERIA MET. | INST#FINNZ 1VIS/91 AAL BE TUNING AND MASS CALIBRATION CRITERIA MET. | INST# FINNZ 11/1991 AAL BET INNING AND MASS CALIBRATION CRITERIA MET. | INST# FINNZ 112091 ALL BESTUNING AND MASS CALIBRATION CRITERIA MET. | INST#FINNE 11/21/91 ALL BEBITMING AND MASS CALIBRATION CRITERIA MET. | INSTOPPINE 11/1/91 ALL BESTURING AND MASS CALIBRATION CRITERIA MET. | INTO PINKE 11/1391 ALL BESTURING AND MASS CALIBRATON CRITERIA MET. |
| Worksheets | Volatie Blank Analyses | NO INTERPERENCE DETECTED, TIC TOTAL=0 | NO INTERPERENCE DETECTED, TIC TOTAL=0 | INTERPRENCE DETECTED, MTLNCL.=9 µgl., TIC TOTAL.=0 | INTERFERENCE DETECTED, MTLNCL=21 µg/L, TICTOTAL=0 | INTERFERENCE DETECTED. MTLNCL=11.pgC, TRCTOTAL=0 | NO INTERPRIENCE DETECTED, TIC TOTAL=0 | NO INTERPREDICE DETECTED, TIC TOTAL=0 |
| Table F-3d. Volatile Organic Compound Data Validation Worksheets Indiana Air National Guard Base Fort Wayne, Indiana | Volatie MS/MSD Analyses | LIMITS LIMITS LIMITS | (SEE ANALYSES POR (<u>NWI-CG)</u>) | (SEE ANALYSES FOR <u> MW1-02</u>) | (SBE ANAL YSES FOR [<u>KWI – QI</u>) | [] ALL RECOVERY AND DIFFERENCE VALUES WITHIN LINIT'S EXCEPT RECOVERIES. TCE-125% MG(12%). AND CLEC-131% MG(12%). | EXI-I-4] ALL RECOVERY AND DIFFERENCE VALUES WITHIN LIMITS EXCEPT RECOVERIES. EXME = 14% MSD(13%). AND CLEZ = 137% MSD(13%). | (SPE ANALYNES POR (NG)-1-d) |
| Table F-3d. Volatile C | Volatie Surtogate Recovery | ALL SURROGATE RECOVERIES WITHIN CONTROL LIMITS FOR WATER SAMPLES | ALL SURROGATE RECOVERES WITHIN CONTROL LIMITS FOR WATER SAMPLES | ALL SURROGATE RECOVERIES WITHIN CONTROL LIMITS FOR WATER SAMPLES | ALL SURROGATE RECOVERES WITHIN CONTROL LIMITS FOR WATER SAMPLES | ALL SURROGATE RECOVERIES WITHIN CONTROL LIMITS FOR WATER SAMPLES | ALL SURROGATE RECOVERIES WITHIN CONTROL LIMITS FOR SOIL, SAMPLES | ALL SURROGATE RECOVERES WITHIN CONTROL LIMITS POR SOFL SAMPLES |
| | V Date S Analyzed R | | 1V15/91 A 1V15/91 1V15/91 1V15/91 | 11/2091 A 11/2091 11/2091 | 1,72091 A 1,72091 (1,7209) 1,72091 (1,7209) 1,72091 | 11/21/91 A 11/21/91 11/21/91 | 1711/91 A 1711/91 C 1711/91 1711/91 | M. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. 19791 A. |
| : | Date | NA 11/05/91 11/05/91 11/05/91 11/05/91 11/05/91 11/05/91 11/05/91 11/05/91 | NA 11/0491 11/0291 11/03/91 | NA 11/06/91 11/06/91 | NA 11/06/91 11/06/91 11/06/91 11/06/91 | NA 11/07/91 11/07/91 | NA 1140041 124091 1140901 | 11/03/91 11/03/91 11/03/91 11/03/91 11/03/91 11/03/91 11/03/91 11/03/91 11/03/91 11/03/91 11/03/91 11/03/91 11/03/91 11/03/91 11/03/91 11/03/91 |
| | Laboratory Identification Number | VBNOV8 14366 14366 14366 13199 13190 13190 13190 14307 NS | VBMOV15 13299 13300 13301 | VBMOV19 14354 14353 | VBNOV20 1486 1436 1436 1436 1432 1432 | VBNOV21 14396 14396 MS 14396 MSD | VBNOV11 15281 15281 NS 15281 NSD | VBNOV12 1578 1578 1578 1578 1578 1578 1518 1519 1510 1517 1517 |
| | SAIC Sample Number | WATERS WATERS WATERS BBI-1 EBI-1 EBI-1 EBI-1 EBI-1 EBI-1 EBI-1 EBI-1-91 TBI-1-91 TBI-1-91 TBI-1-0 TBI-1-0 TBI-1-0 TBI-1-0 TBI-1-9 TBI-1-0 TBI-1-0 TBI-1-0 | WATERS VRLK2 FBI - 1 GWI - 1 TBII - 00 - 91 | WATERS VHLKS MW1-01 MW2-01 | WATERS VRLK4 BR2-1 FR2-1 MW2-01R TB11-6-91 TB11-7-91 | WATERS VELIS P-8 P-8MS P-8MS | SOILS VBLK1 B01-1-4 B01-1-4 NS B01-1-4 NS | SOILS VELKZ BOI - 1-1 BOI - 1-1 BOI - 1-3 BOI - 1-4 BOZ - 1-2 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI - 1-3 SBI |

| Table F-34. Votatile Organic Compound Data Validation Workshoose Indiana Ar National Court Base Fort Wayas, Indiana Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration Calibration ALI REPS > 0.010 4.10.50 (Perr 9 FINNY) DALY TUNE IN CONTROL: ALI REPS > 0.010 4.10.50 (Perr 9 FINNY) DALY TUNE IN CONTROL: ALI REPS > 0.010 4.10.50 (Perr 9 FINNY) DALY TUNE IN CONTROL: ALI REPS > 0.010 4.10.50 (Perr 9 FINNY) DALY TUNE IN CONTROL: ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0.010 ALI REPS > 0 |
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| tion Worksheets Indiana | Date Valdation | Oualifiers | New Applied New Applied | None Agreed None Agreed None Agreed None Agreed | None Applied None Applied | None Applied None Applied | noon vypea Noo Agricolle Noo Agricolle | None Applied None Applied None Applied | Non Applied Non Applied | MTLNC1.=SU(AB) MTLNC2.=SU(AB) MTLNC2.=SU(AB) MTLNC2.=SU(AB) MTLNC2.=SU(AB) | MTLWZ, = 13U(AB) No Applicable No Applicable | MTLNCL = 231(B)/ACE = 298(B)/All other compounds = U1(B) Not Applicable Not Applicable | New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Applied New Ap |
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| Table P-3d. Volatile Organic Compound Data Validation Workshoets Indiana Air National Guard Base Fort Wayne, Indiana | Tontatively Identified | Compounds | 555 | S SS | S S | | Data Not Provided Data Not Provided | 5555 | 555 | 55555 | 0 (0) Dan Not Frontadd Dan Not Frontadd | 0 (0) Data Not Froddad Data Not Froddad | 555555 555555 |
| | Significant | Results | None Described None Described NONE DESCRIPED NITENAL = MACE = 11 pg/ | Notes Detected Notes Detected TG Mg = 12 and | None Detected None Detected | Note Describe Note Described | Not Applicable Not Applicable | None Descried MTL.NL.=14 pgf None Descried None Descried | MILNCL = 9 und Nome Described Nome Described | MTLNCL LE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE SE MOI MILLOC LE | MTLNCL=11.pg/ MTLNCL=15B.pg/ Not Applicable Not Applicable | None Detected MTLNCI #29.40/4g Not Applies ble Not Applies ble | None Described EZ-ME = 11 paylog EZ-ME = 11 paylog EZ-ME = 11 paylog Mone Described Mone Described Mone Described None Described None Described None Described None Described None Described None Described None Described None Described None Described None Described None Described |
| | Laboratory | Number | VBNOVB 1426 1426 | 200 | 13115 | 9151 90151 90151 | 14367 148 14367 1480 | VENOVIS 13299 13300 13301 | VENOVI9 1484 1485 | VBNOV20 14861 14860 14866 14866 14862 14882 | VBNOV21 1459 1459 NS 1459 NS | VBNOV11 1508 1538 MS 1538 MSD | VENDOV12 19778 19778 19778 19778 19778 19778 19778 19778 19778 19778 19778 |
| | SAIC Sample | Number | WATERS VELCI EBI-1 EBIA-1 | EB- | MAN1-02 TB10-90-91 | TB11-1-91 | MW1-02 MSD MW1-02 MSD | WATERS VELKS YBL-1 GWI-1 TBL-08-91 | WATERS VILKS MW1-0t MW2-0t | WATERS VIE.K4 FIE2-1 FIE2-1 MW2-01R TE11-6-91 TE11-7-91 | WATTERS VELIS P-8 P-8 MS P-6 MSD | SOIL.S VBLK1 BG1-1-4 BG1-1-4 MS BG1-1-4 MSD | \$001.5 \$001.5 \$001.5 \$001.1-1 \$001.1-1 \$001.1-1 \$001.1-1 \$001.1-1 \$001.1-1 \$001.1-1 \$001.1-1 \$001.1-1 \$001.1-1 \$001.1-1 \$001.1-1 |

| Volatie MS/ASD Amilyee | 110 48D | Volatie Volatie Volatie Surrogate MSAGSD Amyres | |
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| NO INTERPERENCE DETECTED, TIC TOTAL=0 | - | ALL SUTROCIATE RECOVERES WITHIN (SEE ANALYSES FOR [<u>BG] - [-4]</u>) NO INTICOMING. LIMITS FOR SOIL SAMFLES DETEC | N (SEE ANALYSES FOR (<u>RG) - 1 - 4</u>) |
| NO INTEMPRENCE DETECTED, TIC TOTAL =0 | - | ALL SURROGATE RECOVERES WITHEN (SEE ANALYSES FOR [SUI-1-1]) NO INTECONTROL LIMITS FOR SOIL SAMPLES DETEC | NTB RECOVERES WITHEN (SEE ANALYSES FOR (<u>BU) - 1 - 1)</u> NITS FOR SOIL SAMPLES |
| NO INTERFERENCE DETECTED, TIC TOTAL=0 | _ | ALI SURROGATE RECOVERES WITHEN (\$11-2) ALI RECOVERY AND NO INTE CONTROL LIMITS FOR SOIL SAMPLES DEPERENCE VALUES WITHIN DETEC LIMITS EXCEPT RECOVERY: EZ-65% MK(66%) | VTE RECOVERIES WITHIN (\$\frac{5B_1}{2}=\frac{7}{2}\] ALL INCOVERY AND INCOVERY AND INCOVERY BOOK SOIL SAMPLES LIMITS EXCEPT RECOVERY: EZ=656 ME(666) |
| DETBC! | ANALYBES FOR [BB]=2-2) NO INTERPRENCE DETECTED, TIC TOTAL=0 | ALL SURROGATE RECOVERES WITHIN (SEE ANALYSES FOR (SEE-3-2)) NO INTE | ATTS FOR SOIL SAMPLES ATTS FOR SOIL SAMPLES |
| NO INTERPRIENCE DETECTED, TIC TOTAL=0 | _ | ALL RECOVERY AND NO INTER CONTROL LIMITS FOR SOIL SAMPLES LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS LIMITS | INCT ALL RECOVERY AND DIFFERENCE VALUES WITHEN LINETS |
| VO INTERPERENCE DETECTED, TIC TOTAL=0 | _ | TE RECOVERES WITHIN (SEE ANALYSES FOR (SEE 2)) ITS FOR SOIL SAMPLES | (HEE ANALYSES FOR (SED2)) |

| | Trip Blank Analysis | NA TB11-03-91 TB11-03-91 TB11-03-91 TB11-03-91 | NA TB11-03-91 TB11-03-91 | NA TBI1-03-91 TBI1-03-91 TBI1-03-91 TBI1-03-91 | AA 1811-05-91 17811-05-91 17811-05-91 17811-03-91 1781-03-91 1781-03-91 1781-03-91 1781-03-91 1781-03-91 | NA TB11-6-91 TB11-6-91 TB11-6-91 TB11-6-91 TB11-05-18T P-7-18T TB11-07-18T TB11-07-18T | NA TB11~6-91 TB11~6-91 |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| | Equipment Blank Analysis | NA BB4-1 BB4-1 BB4-1 BB4-1 | NA EB4-1 EB4-1 | NA BB6-1 BB6-1 BB6-1 BB6-1 | NA EBIA-1,1-1 EBIA-1,1-1 EBIA-1,1-1 EBIA-1,1-1 EBIA-1 EBIA-1 EBIA-1 EBIA-1 EBIA-1,1-1 | NA EB2-1 EB2-1 EB2-1 EB2-1 EB2-1 EB1-1 EB1-1 EB2-1 EB2-1 EB2-1 | NA BB2-1 BB2-1 |
| | Field Blank Analysis | NA 181-1 181-1 181-1 181-1 | XX FB1-1 FB1-1 | NA FBB-1 FBB-1 FBB-1 FBB-1 | NA 188-1 188-1 188-1 188-1 188-1 188-1 188-1 | XX 1882-1-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881-1881- | NA 1982 – 1 1982 – 1 |
| Table F-3e. Volatile Organic Compound Data Validation Worksheets Indiana Air National Guard Base Fort Wayne, Indiana (Continued) | Continuing Calibration | 11/1391 (INST# FINNZ) DALLYTUNE IN CONTROL: ALL, RRF50 > 0.010 %D < 40% | 11/1591 (INST# FINN1) DALLYTUNB IN CONTROL: ALL. RRF50 > 0.010 %D < 40% | 11/1391 (INST# FINNZ) DAILYTUNE IN CONTROL: ALL RRF50 > 0.010 %D < 40% | 11/1591 (INST# FINN1) DALLYTUNE IN CONTROL: ALL RRF30 > 0.010 %D < 40% | 11/1491 (INST# FINNI) DALLY TUNE IN CONTROL: ALL RRF50 > 0.010 \$D < 40% | 11/1491 (INST# FINNI) DALLYTÜNE IN CONTROL: ALL RRF30 > 0.010 %D < 40% |
| Table P-3e. Volatile Indiana Air Nationa | Initial Calibration | | | 11,0691 (INST# FINNZ) DALLY TUNB IN CONTROL: ALL RRF > 0.010 %RSD < 40% 11/1291 (INST# FINN1) DALLY TUNB IN CONTROL: ALL RRF > 0.010 %RSD < 40% | | | |
| | Laboratory Identification Number | VBNOV13 13284 13285 13287 13290 | VBNOV15 13289 13288 | VBNOV13 1326 1326 1326 MS 1326 MSD | VBNOV15 14259 14250 14250 14250 14250 13292 13295 13295 13295 13296 13296 | VBNOV16 14346 14349 14352 14353 14350 14351 14396 14396 14396 MS | VENOV18 1432RE 14353RE |
| | SAIC Sample Number | SOILS VBLK3 BG2-1-3 SB1-2-1 SB1-2-3 SB1A-1-1 | SOILS VBLK4 SB1-1-7 SB1-2-7 | SOILS VBLK1 SB1-2 SB1A-1-2 SB1-2-2MS SB1-2-2MS | SOILS VBL72 SB1-3-1 SB1-3-2 SB1-3-2 SB1A-1-3 SB1A-1-5 SB1A-1-5 SB1A-2-1 SB1A-2-1 SB1A-2-1 SB1A-2-1 SB1A-3-1 | SOLLS VBLX3 SB1A-1-5 SB1A-1-5R SB1-2-5 SB1-2-5 SB1A-3-4 SB1A-3-4 SB1A-3-6 SB1A-3-5 SBD-1 SBD-1 SBD-2 SBD-2 SBD-2 | SOILS VBLK4 SB1-2-SRE SB1-2-SRRE |

| Tentatively Data Identified Validation | Qualifien | None Applied None Applied None Applied None Applied | None Applied None Applied | Nose Applied Nose Applied Nos Applicable Nos Applicable | MTING = 6TV(FB)/ACE=120U(EB) MTING = 76L(FB) NUTING = 8CL(FB) None Applied None Applied None Applied None Applied None Applied MTING = 3TV(FB) NONE Applied MTING = 6CV(FB) MTING = 6CV(FB) MTING = 6CV(FB) | Nose Applied Nose Applied Nose Applied NOS 4MEZPENT, PCE, PCA, EZME, BBZ, STY, XYI ENES = UJ (IS) BZME = 400 (IS) / 4MEZPENT, PCE, PCA, BEZ, STY, XYI ENES = UJ (IS) BZME = 400 (IS) / 4MEZPENT, PCE, PCA, BEZ, STY, XYI ENES = UJ (IS) BZME = 110 (FR) Nose Applied Nose Applied Nose Applied Nos Applied Not Applied Not Applied Not Applied Not Applied | None Applied |
|----------------------------------------|-----------|-------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Tentatively Identified | Compounds | <u> </u> | <u> </u> | 0 (0) 0 (0) Data Not Provided Data Not Provided | 00000000000 | Data Not Provided (0) | 99 |
| Significant Samole | Results | None Defected None Defected None Defected None Defected SAME = 2M µg/kg | None Detected None Detected None Detected | None Detected None Detected BZME=36 µg/kg Not Applk=blo Not Applk=blo | None Detected MTLNCL = 67ACB = 120/BZMB = 61 μg/kg MTLNCL = 76ACB = 160/BZMB = 61 μg/kg MTLNCL = 76ACB = 160/BZMB = 140 μg/kg MTLNCL = 190 μg/kg BZMB = 190 μg/kg BZMB = 250 μg/kg MTLNCL = 147/ACB = 120/BZMB = 170 μg/kg MTLNCL = 147/ACB = 159/BZMB = 100 μg/kg ACB = 70/BZMB = 160 μg/kg MTLNCL = 69/ACB = 190/BZMB = 160 μg/kg MTLNCL = 69/ACB = 150/BZMB = 160 μg/kg MTLNCL = 69/ACB = 150/BZMB = 160 μg/kg | None Detected MTLNCL = 34/ACE = 38/BZME=670 pg/kg ACE = 60/BZME=40 pg/kg ACE = 60/BZME=40 pg/kg MTLNCL = 64/ACE = 190/BZME=640 pg/kg MTLNCL = 161/BZME=910X pg/kg ACE = 130/BZME=570 pg/kg ACE = 250 pg/kg ACE = 250 pg/kg Not Applicable Not Applicable | None Detected MINCL = 86 mfts ATTANCE = 86 mfts |
| Laboratory Identification | Number | VBNOV13 13284 13285 13287 13280 | VBNOV15 13289 13288 | VBNOV13 13286 13291 13286 MS 13286 MSD | VBNOV15 14259 14250 14251 13293 13294 13295 13295 13295 13295 | VENOV16 14346 14346 14352 14353 14356 14356 14366 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 14396 1439 | VBNOVI8 14352RB |
| SAIC Sample | Number | SOILS VBLK3 BG2-1-3 SB1-2-1 SB1-2-3 SB1A-1-1 | SOILS VBLK4 SB1-1-7 SB1-2-7 | SOIL.S VELKI SB1-2-2 SB1A-1-2 SB1-2-2MS | SOIL.S VELZ2 SB1-31 SB1-31 SB1-33 SB1-3-3 SB1A-1-3 SB1A-2-1 SB1A-2-1 SB1A-2-1 SB1A-3-3 SB1A-3-3 SB1A-3-3 | SOILS VELK3 SB1A-1-5 SB1A-1-5 SB1A-1-5 SB1A-3-4 SB1A-3-4 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 SB1A-3-5 | SOILS VBCK4 SBI -2-5RE |

Footnotes to Table F-3d through F-3e. Volatile Organic Compound Data Validation Worksheets Indiana Air National Guard Base Fort Wayne, Indiana

Control limits for Water VOC Surrogate Recovery

Toluene-d8 (TOL): 88-110

4-Bromofluorobensene (BFB): 86-115

1,2-Dichloroethane-d4 (DCE): 76-114

Control Limits for Soil VOC Surrogate Recovery

Toluene-d8 (TOL): 84-138

Bromofluorobenzene (BFB): 59-113

1,2-Dichloroethane-d4 (DCE): 70-121

Control Limits for Soil VOC MS/MSD Analyses 1,1 - Dichloroethene (DCE11): 59-172, %RPD=22

Trichloroethene (TCE): 62-137, %RPD=24

Berzene (BZ): 66-142, %RPD=21

Toluene (TOL): 59-139, %RPD=21

Chlorobenzene (CLBZ): 60-133, %RPD=21

Tuning and mass calibration performed with bromofluorobenzene (BFB)

Volatile Internal Standard Area Summary Compounds:

Bromochloromethane(BCM)

1,4-Difluorobenzene(DFB)

L,4 - Dilluol obelizelle (Dr. Chlorobenzene - d5(CBZ)

NA - Not Applicable

Significant sample result data qualifiers:

D - analyte identified in an analysis at a secondary dilution factor.

E – analyte's concentration exceeds the calibration range of the instrument for

this specific analysis

J – analyte present between the lower detection limit of the instrument and the lower quantitation limit

B - analyte present in the method blank as well in the sample.

was properly preserved. Therefore, the 14-day holding time requirement was applied for the data collected during the Indiana ANGB SI.

Analysis of samples that have exceeded the method-recommended holding times may result in the following: 1) concentrations of compounds that would have been detected ordinarily are undetected due to chemical transformation, compound volatilization, or biodegradation; 2) reported concentrations lower than those originally present, due to the factors previously stated; or 3) reported concentrations greater than those originally present in the sample, due to external contamination of water samples or changes in soil moisture content. Based on an evaluation of all environmental samples and field QC blanks analyzed for VOCs all holding time criteria were met, except for SB1-2-5 RE and SB1-2-5R RE which were analyzed 16 days after collection. This holding time is considered to have no adverse impact on the associated environmental samples data quality; therefore, no action was taken.

Tuning and Mass Calibration Results — The first step in the calibration of the GC/MS system is the demonstration of satisfactory ionization and fragmentation of standard mass spectral tuning compounds. This was accomplished, in addition to a sensitivity check using p-bromofluorobenzene (p-BFB) injected at a concentration near the instrument detection limit, for EPA Method 8240 and the March 1990 CLP SOW protocol. This standard was analyzed every 12 hours to ensure that the GC/MS was tuned correctly. Tuning and mass calibration requirements used to evaluate the acceptable instrument operation are described in EPA Method 8240 and the March 1990 CLP SOW. Based on an evaluation of the ionization and fragmentation criteria, in addition to the instrument tune frequency, all p-BFB tuning and mass calibration criteria requirements were met.

Initial Calibration Results -- Calibration of the GC/MS used to analyze the samples collected during the Indiana ANGB SI was established by injecting EPA-traceable standards at five concentrations spanning the expected sample concentration range Initial calibration was conducted after the GC/MS tune criteria were met and before any samples were analyzed to determine the instrument sensitivity and the linearity of each target compound. Following the initial calibration, the average relative response factors (RRFs) and percent relative standard

deviation (%RSD) for all VOCs were evaluated to verify the validity of the initial calibration. Calibration criteria requirements for VOC analyses are presented in EPA Method 8240 and the March 1990 CLP SOW. Based on an evaluation of the initial calibrations conducted for VOC analyses, all calibration criteria requirements were met.

Continuing Calibration Results -- A check of the calibration curve was conducted once every 12 hours. The continuing calibration of the GC/MS system is evaluated based on the magnitude of the RRFs and percent difference (%D) between the average RRF of each compound for the initial calibration and the RRF of that compound in the continuing calibration standard. Minimum RRF and maximum %D criteria are presented in EPA Method 8240 and the March 1990 CLP SOW. Based on an evaluation of the continuing calibrations conducted for VOC analyses, all criteria requirements were met.

Internal Standard Summaries -- Three internal standards (i.e., bromochloromethane, 1,4-difluorobenzene, and chlorobenzene-d₅) were added to each sample immediately before analysis as indicators of instrumental operating variations. The concentration of VOCs detected was calculated with reference to the response factor (RF) of the internal standard for each sample. Internal standard area and retention time requirements are described in EPA Method 8240 and the March 1990 CLP SOW. Based on an evaluation of all analyses, all internal standard areas and retention times were within acceptable limits in all analyses, except chlorobenzene-d₅ in SB-B-02, SB1-04-02, BG2-1-1, SB1-2-5, and SB1-2-5R; bromochloromethane and chlorobenzene-d₅ in SB-B-02R and SB2-01-19R; and bromochlorobenzene, 1,4-difluorobenzene, and chlorobenzene-d₅ in SB2-01-19, BG1-1-4, BG1-1-4 MS, and BG1-1-4 MSD, which were less than the lower control limit. As a result, the VOCs quantified based on the RF of those ISs were qualified (i.e., all undetected values will be presented as "UJ[IS]" and all detected values will be presented "J[IS]") to indicate that the internal standard areas were outside the appropriate limits.

Blank Spike Recoveries - The surrogate recovery results of each method blank analyzed were evaluated as a method blank spike, as required by DOE/HWP-65/R1. Surrogate recovery control limits are described in the SOW prepared for the Indiana ANGB SI. Based on an

evaluation of all method blank spike analyses, the percent recoveries of all spike compounds were within acceptable limits.

System Performance Compound Summaries (Surrogate Recoveries) -- Three compounds (i.e., toluene-d₈, P-BFB, and 1,2-dichloroethane-d₄) were added to each environmental sample, and laboratory and field QC sample prior to purging. The control limits for surrogate recoveries in soil and water samples are described in the SOW prepared for the Indiana ANGB SI and the March 1990 CLP SOW. All surrogate recoveries were within the control limits, except for P-BFB in SB-B-02 (i.e., 71 percent); P-BFB and toluene-d₈ in SB2-01-19 (i.e., 72 and 131 percent respectively) and SB2-01-19R (i.e., 136 and 72 percent, respectively); and toluene-d₈ in SB-B-02R (i.e., 122 percent) and SB1-04-02 (i.e., 122 percent). All SB-B-02, SB2-01-19, SB2-01-19R, SB-B-02R, and SB1-01-02 analytical results were considered estimated and data validation qualifiers were applied accordingly (i.e., "UJ[SR]" for undetected compounds or "J[SR]" for detected concentrations) to indicate that the surrogate recoveries were outside the appropriate limits. Tables F-4 and F-5 summarizes the surrogate recovery results for groundwater and soil samples.

Method Blank Results — At least one volatile method blank was used to define the level of laboratory background and reagent contamination. Each method blank was evaluated for interferents that prevent accurate quantitation of a target compound. According to CLP method blank criteria, a laboratory blank may not contain methylene chloride, 2-butanone, or acetone in concentrations five times greater than the CRQL or any other target compound in concentrations greater than the CRQL. Methylene chloride was detected in one method blank (i.e., VBLK4 [2J μ g/L]) associated with one groundwater sample batch. As a result, the concentration of all affected samples (i.e., EB2-1 [5U(MB) μ g/L], FB2-1 [5U(MB) μ g/L], MW2-01R [5U(MB) μ g/L], TB11-6-91 [5U(MB) μ g/L], and TB11-7-91 [5U(MB) μ g/L], associated with VBLK4 were qualified (i.e., "U[MB]") to indicate that the methylene chloride reported was considered undetected, since the concentrations reported did not exceed 10 times that detected in the method blanks. No other VOCs were detected in the laboratory method blanks.

TABLE F-4. VOC SURROGATE RECOVERY QC SUMMARY: GROUNDWATER INDIANA ANGB, FORT WAYNE, INDIANA

| PARAMETER | TOTAL NUMBER ANALYSES* | PERCENT RECOVERY RANGES | PERCENT RECOVERY CONTROL LIMITS | NUMBER WITHIN CONTROL LIMITS | NUMBER OUTSIDE CONTROL LIMITS |
|---------------------------|------------------------------|-------------------------------|---------------------------------------|------------------------------------|-------------------------------------|
| Toluene – d8 | 45 | (88–110) | (88-110) | 45 | 0 |
| Bromofluorobenzene | 45 | (91–115) | (86–115) | 45 | 0 |
| 1,2 - Dichloroethane - d4 | 45 | (76–108) | (76–114) | 45 | 0 |
| | | | | | |

• GROUND WATER, MATRIX SPIKE, MATRIX SPIKE DUPLICATE, METHOD BLANKS, TRIP BLANKS, FIELD BLANKS, EQUIPMENT BLANKS, TRIP BLANKS.

TABLE F-5. VOCSURROGATE RECOVERY QCSUMMARY: SOIL/SEDIMENT INDIANA ANGB FORT WAYNE, INDIANA

| PARAMETER | TOTAL NUMBER ANALYSES* | PERCENT RECOVERY RANGES | PERCENT RECOVERY CONTROL LIMITS | NUMBER WITHIN CONTROL LIMITS | NUMBER OUTSIDE CONTROL LIMITS |
|-----------------------------------------------------|------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------|-------------------------------------|
| Toluene-d8 Bromofluorobenzene 1,2-Dichloroethane-d4 | 22222 | (81–117)** (84–138)*** (74–121)** (59–113)*** (70–121)** | (85 – 136) (85 – 129) (71 – 108) (74 – 110) (75 – 117) | \$\$ \$\$ \$\$ \$\$ \$\$ | 40%000 |
| | | | | | |

SOIL/SEDIMENT, MATRIX SPIKE, MATRIX SPIKE DUPLICATE, METHOD BLANKS.

H .. PERCENT RECOVERY RANGES FOR SW8240

••• PERCENT RECOVERY RANGES FOR CLP SOW 3/90

Matrix Spike/Matrix Spike Duplicate Results — MS/MSD analyses were conducted to assess the accuracy and precision of the laboratory and to evaluate the matrix effect of the sample upon the analytical methodology based upon the percent recovery of each compound. Accuracy was expressed as the percent recovery of the spike compounds. Precision was expressed as the RPD of the concentrations of the spike compounds in the MS/MSD samples. The control limits for percent recoveries in soil and water samples were described in EPA Method 8240 and the March 1990 CLP SOW. No action was taken based on percent recovery or RPD values; however, MS/MSDs were evaluated to verify that 1 MS/MSD analysis was conducted for each 20 environmental samples received by the laboratory (excluding dilutions and reanalyses conducted), that these analyses were conducted on environmental samples only, and that the recovery and difference results did not indicate systematic laboratory control problems. Tables F-6 and F-7 summarizes the MS/MSD results for groundwater and soil samples.

Four MS/MSD analyses (i.e., SB2-04-01, SB1-04-04, BG1-1-4, and SB1-2-2) were conducted using soil samples and 1 MS/MSD analysis (i.e., SED-2) was conducted using sediment sample collected during the Indiana ANGB, Fort Wayne Field SI. All percent recovery values were within the control limits, except for toluene in BG1-1-4 (141 and 144 percent), chlorobenzene in BG1-1-4 (137 percent), and benzene in SB1-2-2 (65 percent). Two MS/MSD analyses (i.e., MW1-02 and P-8) were conducted using groundwater samples collected during the Indiana ANGB SI. All percent recovery values were within control limits, except for toluene in P-8 (128 percent), trichlorethene in P-8 (125 percent), and chlorobenzene in P-8 (131 percent). All RPD values were within the control limits. No data validation qualifiers were applied, since trichloroethene, benzene, toluene, and chlorobenzene were not detected in the unspiked samples.

Significant Qualified Sample Results -- Data validation qualifiers have been added to EB2-1 (i.e., $5U[MB] \mu g/L$), FB2-1 (i.e., $5U[MB] \mu g/L$), MW2-01R (i.e., $5U[MB] \mu g/L$), TB11-6-91 (i.e., $5U[MB] \mu g/L$), and TB11-7-91 (i.e., $5U[MB] \mu g/l$) sample results to indicate that methylene chloride was detected in the associated laboratory method blanks. Data validation qualifiers have been applied to SB-B-02, SB2-01-19, SB-B-02R, and SB2-01-19R (i.e., "UJ[SSR,IS]" for nondetected compounds and "J[SSR,IS]" for detected compound concentrations) to indicate that the selected internal standard areas and surrogate recoveries

TABLE P.-6. VOC MSAASD QC SUMMARY: GROUNDWATER INDIANA AND BFORT WAYNE, INDIANA

| | | ACCURACY | ACY | | | | | PRECISION | NON | |
|-------------------|---------------------------------|-------------------------------|-------------------------|------------------------------------|-------------------------------------|------------------------------|--------|-----------|------------------------------------|---------------------------------------------|
| PARAMETER | MS/MSD TOTAL No. ANALYSES | PERCENT RECOVERY RANDES | %R CONTROL LIMITS | NUMBER WITHIN CONTROL LIMITS | NUMBER OUTSTDE CONTROL LIMITS | MSD TOTAL No. ANALYSES | RANDE | RPD | NUMBER WITHIN CONTROL LIMITS | NUMBER NUMBER WITHEN OUTSEDE CONTROL LIMITS |
| 1,1-Dkhloroothene | • | (94-127) | (61–145) | • | 0 | | (0-2) | 7 | 7 | • |
| Trichloroethme | • | (106–125) | (71–120) | 6 | - | m | (1-n) | * | 7 | • |
| Вевлене | * | (94-102) | (76–127) | • | • | 6 | (9-5) | 11 | 8 | • |
| Tohene | * | (108-128) | (76–125) | 6 | - | 6 | (-1-7) | 13 | 7 | • |
| Chlorobeazeno | * | (114–131) | (75–130) | 6 | # | 60 | (-1-6) | 13 | 2 | • |
| | | | | | | | | | | |

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE ANALYSES PERFORMED ON SAMPLES MW2-01R, P-8.

| | | ACCURACY | LACY | | | | | PRECISION | NOI | |
|-------------------|--------------------------------|-------------------------------|-------------------------|------------------------------------|-------------------------------------|-------------------------------|------------|-----------|------------------------------------|---------------------------------------------|
| PARAMETER | MSMSD TOTAL No. ANALYSES | PERCENT RECOVERY RANGES | %R CONTROL LIMITS | NUMBER WITHIN CONTROL LIMITS | NUMBER OUTSIDE CONTROL LIMITS | MSD TOTAL No. ANAL YSBS | RPD | RPD | NUMBER WITHIN CONTROL LIMITS | NUMBER NUMBER WITHIN OUTSIDE CONTROL LIMITS |
| 1,1-Deblorocthane | 10 | (94-125) | (59–172) | 01 | 0 | 8 | [9-(\$1-)] | z | s | 0 |
| Trichloroethane | 92 | (65-95) | (62-137) | 01 | • | ٠, | [(-16)-3] | * | ν, | • |
| Benzene | 91 | (65–115) | (66–142) | ٥ | - | 8 | [(-12)-18] | 21 | v | • |
| Tolsene | 01 | (95–144) | (59-139) | • | 8 | s | [(-5)-2] | 12 | 'n | • |
| Chlorobeazene | 91 | (86–137) | (60-133) | ۵ | = | × | [(-13)-2] | 72 | v | • |
| | | | | | | | | | | |

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE ANALYES PERFORMED ON SAMPLES SB2-04-01, SB1-04-04, BO1-1-4, SB1-2-2, AND SED-2.

were outside the appropriate control limits. Data validation qualifiers have been applied to BG1-1-4, BG2-1-1, SB1-2-5, and SB1-2-5R (i.e., "UJ[IS]" for nondetected compounds and "J[IS]" for detected compounds) to indicate that the selected internal standard areas were outside the appropriate control limits. A data validation qualifier has been applied to toluene in SB2-01-19 and SB2-01-19R (i.e., "J[FR]") to indicate matrix variability.

F.3.1.2 Aromatic Volatile (BTEX) Analysis (EPA Method 8020)

Thirteen samples (i.e., 4 groundwater samples and 9 soil samples) were collected and submitted to the NET Laboratory using EPA Method 8020 for BTEX analysis. A validation process was not required by the SOW prepared for the Indiana ANGB SI. The BTEX analytical results are presented in Table F-8.

F.3.1.3 Semivolatile Organic Compound Analysis (EPA Methods 3550/8270, 3510/8270 and March 1990 CLP SOW)

Twenty nine soil samples, 2 sediment samples, 7 groundwater samples, and 8 field QC blanks (i.e., field blanks and equipment blanks) were collected and analyzed by the NET Laboratory using EPA Methods 3550/8270 and 3510/8270. Thirty nine soil samples, 6 groundwater samples and 7 field QC blanks (i.e., field blanks and equipment blanks) were collected and analyzed by the NET Laboratory for SVOCs using the March 1990 CLP SOW. Data quality will be evaluated using the guidelines and control limits specified for holding times, tuning and mass calibration, initial and continuing calibration verification, method blank spike, method blank, surrogate recovery, internal standard area, and MS/MSD results. A presentation of the significant qualified sample results follows the laboratory QC results discussion. The SVOC data validation worksheets are presented in Table F-9.

Holding Times — Holding times were defined as the maximum amount of time allowed to elapse between the date and time of sample collection and the date and time the sample was extracted. Holding times were further defined as the maximum amount of time allowed to elapse between the date and time of extraction and sample analysis. The NET Laboratory was required to meet extraction holding times of 7 days for water samples and 14 days for soil samples collected for SVOC analysis. All analyses were required within 40 days of extraction.

| | | | | Table F-8. Indiana Ai | Table F-8. BTEX Compound Data Validation Worksheets Indiana Air National Guard Base, Fort Wayne, Indiana | \$192 1 | |
|-----------------------|------------|-----------|-----------|--------------------------|----------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|
| SAIC Semple | Laboratory | ļ pļ | Date | Date | Volatile Surrogate | Volatile MS/MSD | Volatile |
| Number | Number | Collected | (Primary) | | | Analyses | Analyses |
| WATERS WATER BLANK | | \$ | 11/14/91 | 11/1491 | | CONDUCTED BUT NOT REVIEWED | NO INTERPERENCE DETECTED |
| MW4-01 MW4-02 | 14357 | 11/06/91 | 11/1491 | 11/1491 | CONTROL LIMITS FOR WATER SAMPLES | | |
| MW4-02R | 14359 | 11/06/91 | 11/15/91 | 11/15/91 | | | |
| P-1 | 14397 | 11/0/11 | 11/15/91 | 11/15/91 | | | |
| MW4-01 MSD | 14357 MSD | 11/06/91 | 11/1491 | 11/1491 | | | |
| SOILS | | | | | | | |
| WATER BLANK | . H20 | ¥ | 11/06/91 | 11/06/91 | ALL SURROGATE RECOVERIES WITHIN | CONDUCTED BUT NOT REVIEWED | NO INTERPERENCE DETECTED |
| SB4-1-6 | 13112 | 10/30/91 | 11/06/91 | 11/06/91 | CONTROL LIMITS FOR SOIL SAMPLES | | |
| SB4-2-1 | 13177 | 10/31/91 | 11/06/91 | 11/06/91 | EXCEPT: [\$B4-3-4] FOR ICLZFBZ= | | |
| SB4-3-4 | 13193 | 11/01/91 | 11/06/91 | 11/08/91 | 34.7% (50%), [\$B4-1-1] FOR 1CLZFBZ= | | |
| SB4-2-2 | 13178 | 10/31/91 | 11/06/91 | 11/06/91 | 5.8% (50%), [SB4-1-1RE] FOR ICL2FBZ= | | |
| SB4-1-2 | 13111 | 10/30/91 | 11/06/91 | 11/06/91 | 5934.7% (125%) | | |
| SB4-1-1 | 13110 | 10/30/91 | 11/08/91 | 11/08/91 | | | |
| SB4-3-1 | 13191R | 11/01/91 | 11/06/91 | 11/08/91 | | | |
| SB4-3-2 | 13192R | 11/01/91 | 11/08/91 | 11/08/91 | | | |
| SB4-1-1 | 13110R | 10/30/91 | 11/08/91 | 11/06/91 | | | |
| SB4-3-4 MS | 13193 MS | 11/01/91 | 11/08/91 | 11/08/91 | | | |
| SB4-3-4 MSD | 13193 MSD | 11/01/91 | 11/08/91 | 11/06/91 | | | |
| - | | | | | | | |

| | 1 | Table F-8. BTEX Compound Data Validation Worksheets Indiana Air National Guard Base, Fort Wayne, Indiana (Continued) | orksheets (Continued) |
|-------------|----------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| | Laboratory | Initial | Continuing |
| SAIC Sample | Identification | Calibration | Calibration |
| Number | Number | | |
| WATERS | | | |
| WATER BLANK | H20 | INFORMATION ON FILE AT LABORATORY | INFORMATION ON FILE AT LABORATORY |
| MW4-01 | 14357 | | |
| MW4-02 | 14358 | | |
| MW4-02R | 14359 | | |
| P-1 | 14397 | | |
| MW4-01 MS | 14357 MS | | |
| MW4-01 MSD | 14357 MSD | | |
| SOILS | | | |
| WATER BLANK | H20 | INFORMATION ON FILE AT LABORATORY | INFORMATION ON FILE AT LABORATORY |
| SB4-1-6 | 13112 | | |
| SB4-2-1 | 13177 | | |
| SB4-3-4 | 13193 | | |
| SB4-2-2 | 13178 | | |
| SB4-1-2 | 13111 | | |
| SB4-1-1 | 13110 | | |
| SB4-3-1 | 13191R | | |
| SB4-3-2 | 13192R | | |
| SB4-1-1 | 13110R | | |
| SB4-3-4 MS | 13193 MS | | |
| CD4-1-4 MCD | 12102 MeD | | |
| 354-3-4 MOL | LOINS MOL | | |
| | | | |

| | Table F-8. BTEX Indiana Air National Gu | Table F-8. BTEX Compound Data Validation Worksheets Indiana Air National Guard Base, Fort Wayne, Indiana (Continued) |
|-------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| | Laboratory | Significant |
| SAIC Sample | Identification | Sample |
| Number | Number | Results |
| WATERS | | |
| WATER BLANK | H20 | None Detected |
| MW4-01 | 14357 | None Detected |
| MW4-02 | 14358 | None Detected |
| MW4-02R | 14359 | None Detected |
| P-1 | 14397 | None Detected |
| MW4-01 MS | 14357 MS | Not Applicable |
| MW4-01 MSD | 14357 MSD | Not Applicable |
| SOILS | | |
| WATER BLANK | H20 | None Detected |
| SB4-1-6 | 13112 | $BZME=1.60 \mu g/kg$ |
| SB4-2-1 | 13177 | None Detected |
| SB4-3-4 | 13193 | None Detected |
| SB4-2-2 | 13178 | $BZME=3.50 \mu g/kg$ |
| SB4-1-2 | 13111 | $BZME=0.70 \mu g/kg$ |
| SB4-1-1 | 13110 | None Detected |
| SB4-3-1 | 13191R | None Detected |
| SB4-3-2 | 13192R | $BZME=0.98 \mu g / kg$ |
| SB4-1-1 | 13110R | EBZ=210.00/m&p-XYLENES=110.00/ |
| | | o-XYLENES & STY=84.00 μg/kg |
| SB4-3-4 MS | 13193 MS | Not Applicable |
| SB4-3-4 MSD | 13193 MSD | Not Applicable |
| | | |

Footnotes to Table F-8. BTEX Compound Data Validation Worksheets Indiana Air National Guard Base, Fort Wayne, Indiana

Control limits for Water BTEX Surrogate Recovery

1-Chloro-2-Flourobenzene (1CL2FBZ): 50-125

Control Limits for Soil BTEX Surrogate Recovery 1-Chloro-2-Flourobenzene (1CL2FBZ): 50-125

Significant Sample Results Abbreviations:

BZME = TOLUENE

EBZ = ETHYLBENZENE

STY = STYRENE

| SAIC Sample Number | Laboratory Identification Number | Date | Date Extracted | Semyolatie Date Surrogate Analyzed Recovery | Seraivolatilo MS/MSD Analyses | Semivolatile Blank Analyses | Sensivolatie Tuning/Mass | Semivolable Internal Standards |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------|
| BATCH SW173 FB-01 FB-02 EW-01 | 90021708 90021709 90021710 MBH73 90021501 MBS173 | 86-22-80 8-22-80 8-22-80 8-22-80 8-22-80 | *** | 888888 | | NO INTERFERENTS DETECTED | 1 | |
| BATCH SW181 EW-03 | 90021806 MBS181 MB181 | 8-28-80 \$ \$ \$ \$ \$ \$ | 08-31-90 08-31-90 08-31-90 | 09-15-90 ALL OTHERS OK 09-14-90 ZPP(8) | NONE CONDUCTED | NO INTERPERENTS DETECTED | ALL DFTPP CRITERIA WITHINCONTROL LIMITS (0914/90) | (09/1490) ALL AREAS WERE WITHIN CONTROL LIMITS |
| BATCH SW214B P-2 EW-07 MW2-01 MW1-02 MW1-01 EW-09 P-8 HT-01 | 90024801 90024901 90024901 90025102 90025102 90025106 MBS214B MBS214B | 99-11-90 99-14-90 99-14-90 99-14-90 99-16-90 99-16-90 NA NA | 99-28-80 99-28-80 99-28-80 99-28-80 99-28-80 99-28-80 99-28-80 | 10-10-90 \$1-\$5 LOW 10-10-90 ALL OK 10-10-90 ALL OK 10-10-90 ALL OK 10-10-90 ALL OK 10-10-90 ALL OK 10-10-90 ALL OK 10-10-90 ALL OK | NONE CONDUCTED | NO INTERPERENTS DETECTED | ALL DETER CRITERIA WITHINCONTROL LIMITS (10'10'90) | (09/490) ALL AREAS WERE , WITHIN CONTROL LIMITS |
| BATCH SW23R EW-05 FB-03 MW4-02 | 90022401 90023606 90023901 MB253R | 08-31-90 09-11-90 09-12-90 NA | 10-19-90 09-14-90 10-19-90 10-19-90 | 11-66-90 \$2(33) 10-62-90 ALL OK 11-65-90 \$2(41) 11-01-90 \$2(42) | NONECONDUCTED | NO INTERPERENTS DETECTED | ALL DETRE CRITERIA WITHINCONTROL LIMITS (100299, 11/01/90) | (10/02/90, 11/05/90) ALL AREAS WERE WITHIN CONTROL LIMITS |

| 90021708 90021709 90021710 MB173 | Calibration SPCC/CCC | Calibration SPCC/CC | Blank Analysis | Blank | Equipment Blank Analysis |
|-------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 90021708 90021709 90021710 MB173 | | | | | |
| MB173 | 09-11-90 (CASE # SW173W) | 09-12-90 (CASE # SW173W) | ۷ × | V 2 | ۷ × |
| MB173 | ALL SPCC RRF > 0.050 | ALL SPCC RRF30 > 0.050 | Y Z | ξ Χ | { ∢ Z Z |
| | CCC %RSD < 30% | CCC %D < 25% | | | |
| 90021501 | | 09-13-90(CASE #SW173W) | | | |
| MBS173 | | ALL SPCC RRF50 > 0.050 | | | |
| | | | | | |
| 90021808 | 09-11-90 (CASE SW181W) | 09-14-90 (CASE SW181W) | ٧V | Y. | V. |
| MBS181 MR181 | DAILY (09-11-90) TUNE IN CONTROL ALL SPCC RRF > 0.050 | DAILY TUNE IN CONTROL ALL SPCC RRF50 > 0.050 | | | |
| | CCC %RSD < 30% | CCC %D < 25% | | | |
| | | | | | |
| 90024801 | 10-02-90 (CASE SW214B) | 10-10-90 (CASE SW214B) | TB-08 | FB-01,-02 | 2 EW-07 |
| 90024901 | DAILY (10-02-90) TUNE IN CONTROL | DAILY TUNE IN CONTROL | ۲× | ٧× | ٧× |
| 90024902 | ALL SPCC RRF > 0.050 | ALL SPCC RRF50 > 0.050 | TB-10 | FB-01,-0 | |
| 90025101 | CCC %RSD < 30% | CCC %D < 25% | TB-11 | FB-01,-0 | - |
| 90025102 | | | TB-11 | FB-01,-0 | |
| 90025104 | | | ٧× | ۲ | |
| 90025105 | | | TB-12 | FB-01,-0 | |
| 90025106 | | | ۲ | ۲ | Y Z |
| MBS214B MB214B | | | | | |
| | | | | | |
| 90022401 | 10-02-90 (CASE SW253R) | 10-02-90, 11-01-90 | ٧ | ٧X | ۲ |
| 90023606 | DAILY (10-02-90) TUNE IN CONTROL | (CASE SW253R) | ۲ ۲ | ۲ | ۲ |
| 0023901 | ALL SPCC RRF > 0.050 | DAILY TUNE IN CONTROL | TB-08 | FB-03 | EW-05 |
| M B253K | CCC % RSD < 30% | ALL SPCC RRF30 > 0.030 | ۲ ۲ | ₹ Z | ď Z |
| | DAILY (11-01-90) TUNE IN CONTROL | | | | |
| | ALL SPCC RRF > 0.050 | | | | |
| | 90024901 90024902 90025101 90025104 90025106 MB214B MB214B 90022401 90023606 | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | ALL SPCC RRF > 0.050 CCC %RSD < 30% 10-02-90 (CASE SW253R) DAILY (10-02-90) TUNE IN CONTROL ALL SPCC RRF > 0.050 CCC %RSD < 30% 11-01-90 (CASE SW253R) DAILY (11-01-90) TUNE IN CONTROL ALL SPCC RRF > 0.050 CCC %RSD < 30% CCC %RSD < 30% | 10-02-90 (CASE SW253R) 10-02-90 (CASE SW253R) 10-02-90 (CASE SW253R) 11-01-90 (CASE SW253R) CCC &R D < 25% 11-01-90 (CASE SW253R) ALL SPCC RRF > 0.050 ALL SPCC RRF > 0.050 11-01-90 (CASE SW253R) CCC &BD < 25% ALL SPCC RRF50 > 0.050 ALL SPCC RRF50 > 0.050 CCC &BD < 25% CCC &BD < 25% CCC &BD < 25% CCC &BD < 25% CCC &BD < 25% CCC &BD < 25% CCC &BD < 25% | ALL SPCC RRF > 0.050 ALL SPCC RRF > 0.050 CCC %RSD < 30% 10-02-90 (CASE SW253R) ALL SPCC RRF > 0.050 TB-11 NA 10-02-90 (CASE SW253R) ALL SPCC RRF > 0.050 CCC %RD < 25% TB-11 NA TB-12 NA 11-01-90 (CASE SW253R) ALL SPCC RRF > 0.050 ALL SPCC RRF > 0.050 CCC %RSD < 30% ALL SPCC RRF > 0.050 ALL SPCC RRF > 0.050 CCC %RD < 25% ALL SPCC RRF > 0.050 CCC %RD < 25% ALL SPCC RRF > 0.050 CCC %RD < 25% CCC %RD < 25% ALL SPCC RRF > 0.050 CCC %RD < 25% ALL SPCC RRF > 0.050 CCC %RSD < 30% |

| SAIC Sample Number | Identification Number | Sample Reults | Data OnaViera | Identified |
|-------------------------|-------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------|----------------------|
| BATCH SW173 | | | | |
| FB-01 FB-02 EW-01 | 90021708 90021709 90021710 MB173 90021501 | ALL ND BISZEHP(12) ALL ND Not Applicable ALL ND | None Applied None Applied None Applied | NO TIC DATA PROVIDED |
| BATCH SW181 EW-03 | 90021808 MBS181 MB181 | ALL ND Not Applicable Not Applicable | None Applied | |
| BATCH SW214B | | | | |
| P-2 | 90024801 | ALLND | All compounds = R(SSR) | ATAC DIT ON |
| EW-07 | 90024901 | ALL ND | None Applied | PROVIDED |
| MW2-01 | 90024902 | ALLND | None Applied | |
| MW1-02 | 90025101 | ALLND | None Applied | |
| EW-09 | 90025104 | ALLAD | None Applied | |
| P-8 | 90025105 | ALLND | None Annied | |
| HT-01 | 90025106 MBS214B MB214B | ALL ND Not Applicable Not Applicable | None Applied | |
| BATCH SW253R | | | | |
| EW-05 | 90022401 | ALL ND | All compounds=R(EHT) | NO TIC DATA |
| FB-03 | 90023606 | ALL ND | None Applied | PROVIDED |
| 70-+MW | MB253R | ALL ND Not Applicable | All compounds=R(BHT) | |

| SAJC Sample | Laboratory Identification | Dete | Date | Date | Segrivolatile Surrogate | Semivolatile MS/MSD | Segivolatile Blank | Semivolatie Tuning/Mass | Somwolatie Internal |
|-------------|------------------------------|--------------------|------------------------|-----------------|----------------------------|------------------------|-----------------------|----------------------------|------------------------|
| DATE SCITT | Number | Collected | Extracted | Analyzed | Recovery | Analyzes | Analyzes | Calibration | Standards |
| SB1-01-12 | 90021701 | 08-27-90 | 06-90-60 | 09-17-90 ALL OK | ALLOK | | NO INTREPRESENTS | ALL DRIPP | mar_1/au/ |
| \$81-01-11 | 90021702 | 08-27-90 | 06-00-60 | _ | ALOK | | DETECTED | AIRRIA | ALL ADDAS WIDE |
| SB1-03-02 | 90021703 | 08-28-90 | 06-90-60 | _ | ALOK | | | WITHINCONTROL | |
| SB1-03-05 | 90021704 | 08-28-90 | 06-90-60 | _ | ALOK | | | IMI | |
| SB1-03-18 | 90021705 | 08-28-90 | 06-90-60 | _ | ALLOK | | | 2 TI INPS A PPI V | (04/1/40)) |
| SB-B-01 | 90/12006 | 08-28-90 | 06-09-60 | _ | ALLOK | | | (09/17,14/90) | ALL AREAS WERE |
| 1 | | ; | ; | ! | 1 | | | | WITHINCONTROL |
| SB-B-02 | 90021707 | 8-22-80 | 8-8-8 | 09-18-90 ALL OK | ALC | | | | LIMITS EXCEPT |
| SB1-02-03 | 10012006 | 8-29-30 | 8-99-08 | 90-18-90 ALL OK | ¥T& | | | | NPT, CRY, AND PRY |
| SB1-02-03R | 20021802 | 3-29-90 3-29-90 | 06-90-60 | 09-18-90 ALL OK | ALLOK | | | | (SMP# 21804) |
| SB1-02-16 | 90021803 | 08-28-90 | 00-00-00 | 00-18-90 | ALLOK | | | | NO REANALYSIS |
| SB2-01-01 | 90021804 | 08-29-90 | 06-90-60 | 09-18-90 | 09-18-90 51(134), 52(15) | | | | |
| | | | | | | | | | |
| SR2-01-19 | 90021806 | 08-20-90 | 09-09-00 | 00-19-00 ATT OK | A11 OK | | | | |
| | MBS177 | £ | 06-90-60 | | ALOK | | | | |
| SB1-02-16 | 90021803MS | 08-28-80 | 06-90-60 | | ALLOK | ALL WITHIN | | | |
| SB1-02-16 | 90021803MSD | 28-28-90 | 06-90-60 | | ALOK | LIMITS | | | |
| | MB177 | ž | 06-90-60 | 09-17-90 ALL OK | ALLOK | | | | |
| BATCH SS190 | | | | | | | | | |
| SB2-02-01 | 90022301 | 08-30-90 | 06-00-60 | 09-19-90 ALL OK | ALL OK | NONE CONDUCTIED | NO INTERPREDICT | AII DETPP | //mv10/m/ |
| SB2-03-01 | 90022302 | 08-90-80 | 06-06-00 | _ | ALLOK | | DETECTED | CRITERIA | ALL ARRAS WERE |
| SB2-04-01 | 90022303 | 08-30-80 | 8-10-60 | | ALLOK | | | MITHEROPHIE | |
| SB4-01-01 | 90022304 | 08-30-30 | 06-04-80 | 09-19-90 ALL OK | ALLOK | | | LDATIS | |
| | | | | | | | | 2 TUNES APPLY | (09/20/90) |
| SB4-01-02 | 90022303 | 083030 | 06-04-90 | 09-20-90 ATT OK | ATT OK | | | (0% 1%, AUTO) | WITHINGONIBO |
| SB4-02-01 | 90022306 | 08-90-80 | 06-06-80 | 09-19-90 ALL OK | ALLOK | | | | LIMITS |
| SB4-02-02 | 90022307 | 08:30:40 | 09-04-80 | 00-19-90 ATT OK | ATT OK | | | | |
| | | : | ! | : | | | | | |
| SB4-03-01 | 90022308 | 08-30-90 | 06-10-60 | 09-20-90 ALL OK | ALLOK | | | | |
| SB4-03-02 | 80022308 | 06-30-30 | 06-10-60 | | ALOK | | | | |
| SB4-04-01 | 90022310 | 08-30-80 | 08-07-00 | | ALOK | | | | |
| SB4-04-02 | 11622006 | 06-06-90 | 8-5-8 | | ALLOK | | | | |
| SB4-02-01 | 90022312 | 8-30-30 | 06-15-60 08-15-60 | _ | ALLOK | | | | |
| SB4-08-02 | 90022313 | 06-30-30 | 06-00-60 | - | ALLOK | | | | |
| | MBS190 | ≨: | 06-150-60 60-150-60 | 09-19-90 ALL OK | ALOK | | | | |
| | | | | | | | | | |

| | Laboratory | Initial | Continuing | Trip | Field | Equipment |
|-------------|----------------------|----------------------------------------------------------|-------------------------|------------|-----------|-----------|
| SAIC Sample | Identification | Calibration | Calibration | Blank | Blank | Blank |
| Number | Number | SPCC/CCC | SPCC/CCC | Analysis | Analysis | Analysis |
| BATCH SS177 | | | | | | |
| SB1-01-12 | 90021701 | 09-11-90 (CASE # SS177) | 2 CCVs APPLY | ۲ ۲ | FB-01,-02 | EW-01 |
| SB1-01-11 | 90021702 | DAILY (09-11-90) TUNE IN CONTROL | 09-17-90 (CASE # SS177) | ٧ | FB-01,-02 | EW-01 |
| SB1-03-02 | 90021703 | ALL SPCC RRF > 0.050 | ~ | ∢ Z | FB-01,-02 | EW-01 |
| SB1-03-05 | 90021704 | CCC %RSD < 30% | CCC %D < 25% | ۲z | FB-01,-02 | EW-01 |
| SB1-03-18 | 90021705 | | 09-18-90 (CASE # SS177) | ٧ | FB-01,-02 | EW-01 |
| SB-B-01 | 90021706 | | 2 | Y X | FB-01,-02 | EW-01 |
| SB-R-02 | 90021707 | | %C7 > MM CCC | × | FB-0102 | EW-01 |
| SB1-02-03 | 90021801 | | | Z Z | FB-01,-02 | EW-03 |
| SB1-02-03R | 90021802 | | | ۲ | FB-01,-02 | EW-03 |
| SB1-02-16 | 90021803 | | | ¥. | FB-01,-02 | EW-03 |
| SB2-01-01 | 90021804 | | | ٧ | FB-01,-02 | EW-03 |
| | | | | | | |
| SB2-01-19 | 90021806 | | | ٧X | FB-01,-02 | EW-03 |
| | MBS177 | | | | | |
| SB1-02-16 | 90021803MS | | | ₹ : | | |
| SB1-02~16 | 90021803MSD MB177 | | | ¢ z | | |
| BATCH SS190 | | 2 ICVs APPLY | 2 CCVs APPLY | | | |
| SB2-02-01 | 90022301 | 09-11-90 (CASE # SS190) | 09-19-90 (CASE SS190) | ₹ | FB-01,-02 | EW-03 |
| SB2-03-01 | 90022302 | DAILY (09-11-90) TUNE IN CONTROL | = | ٧ | FB-01,-02 | EW-03 |
| SB2-04-01 | 90022303 | ALL SPCC RRF > 0.050 | CCC %D < 25% | ۲X | FB-01,-02 | EW-03 |
| SB4-01-01 | 90022304 | CCC %RSD < 30% 09-19-90 (CASE # SS190) | 2 % | ۷ ۲ | FB-01,-02 | EW-03 |
| SB4-01-02 | 90022305 | DAILY (09–19–90) TUNE IN CONTROL ALL SPCC RRF > 0.050 | CCC %D < 25% | ۲ | FB-01,-02 | EW-03 |
| SB4-02-01 | 90022306 | CCC %RSD < 30% | | ٧ | FB-01,-02 | EW-03 |
| SB4-02-02 | 90022307 | | | ٧ | FB-01,-02 | EW-03 |
| SB4-03-01 | 90022308 | | | ۲× | FB-01,-02 | EW-03 |
| SB4-03-02 | 90022309 | | | ٧X | FB-01,-02 | EW-03 |
| SB4-04-01 | 90022310 | | | ٧z | FB-01,-02 | EW-03 |
| SB4-04-02 | 90022311 | | | ∀ Z | FB-01,-02 | EW-03 |
| SB4-05-01 | 90022312 | | | ٧X | FB-01,-02 | EW-03 |
| SB4-05-02 | 90022313 | | | 4 Z | FB-01,-02 | EW-03 |
| | MBS190 | | | | | |
| | 8:07 | | | | | |

| | Laboratory | Significant | | Tentatively |
|---------------|----------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------|
| SAIC Sample | Identification | Sample Remits | Data Ousliffers | Identified Compounds |
| BATCH SS177 | | | | |
| SB1-01-12 | 90021701 | ALL ND | None Applied | NO TIC DATA |
| SB1-01-11 | 90021702 | ALL ND | None Applied | PROVIDED |
| SB1-03-02 | 90021703 | ALLND | None Applied | |
| SB1-03-05 | 90021704 | ALLND | None Applied | |
| SB1-03-18 | 90021705 | ALL ND | None Applied | |
| SB-B-01 | 90021706 | PLA(2201),PYR(1901),BZBF(1701), | None Applied | |
| | | BZKF(3201),BZAP(2101) | | |
| SB-B-02 | | ALLND | None Applied | |
| SB1-02-03 | | ALL ND | None Applied | |
| SB1-02-03R | 90021802 | FLA(270J),PYR(230J),BZBF(170J), BZYB/3301, BZA B/2301) | None Applied | |
| A1-00-199 | 200021803 | DEAT ND | Leitar A second | |
| SB2-01-01 | - | ALLND | NO2BZ, ISOP, NTPH2, DMPH24, BECEM, DCP24, TCB124, NAPH, | |
| ! | | | 4CLAN,HCBU,C4M3PH,MTNPH2,PYR,BTBZNATB,DBZD33, BZAA,BISZEHP,CHRY,DNOP,BZKF,BZBF,BZAP,INP123, | |
| | | | DBAHA, BZGHIP = UJ(SSR, LS) / All other compounds = UJ(SSR) | |
| SB2-01-19 | | BioZEHP(40W) | None Appuea | |
| ,, | | Not Applicable | | |
| 281-02-10 | | Not Application | | |
| SB1-02-16 | 8 | Not Applicable | | |
| | MB177 | Not Applicable | | |
| BATCH SS190 | | | | |
| 60-00-00s | 100000 | CN 114 | None Amilied | ATAC OFF ON |
| 10-70-798 | 20022301 | מאויי | | PBOVING |
| 382-03-01 | 20022302 | ALLIND | | rrovinen |
| 282-04-01 | 90022303 | ALL ND | rone Apparen | |
| SB4-01-01 | 90022304 | NAFH(29W),CNFH2(36W),PHAN(72V), FLA(660),PYR(600),CHRY(38W),BZBF(37W), RZKP(35W),RZAP(24W); | None Applied | |
| SB4-01-02 | 90022305 | ALL ND | None Applied | |
| SB4-02-01 | | BZBF(2801),BZKF(3601), | None Applied | |
| | | BCAP(280J),BCGH1P(230J) | | |
| SB4 - 02 - 02 | 90022307 | PHAN(300J),FLA(320),PYR(480),BZAA(380J), CHRY(400),BZBF(520),BZKF(830), BZAP(590),INP123(410),BZGHIP(540) | None Applied | |
| SB4~03-01 | 90022308 | ALL ND | None Applied | |
| SB4-03-02 | | ALLND | None Applied | |
| SB4-04-01 | | ALL ND | None Applied | |
| SB4-04-02 | | ALLND | None Applied | |
| SB4~05-01 | 90022312 | NAPH(1800),DBZFUR(280J) | None Applied | |
| SB4-05-02 | | ALLND | None Applied | |
| | MBS190 | Not Applicable | | |
| | | | | |

| | | | Table F-9 | c. Data Va | lidation Tables: Sen | Table F-9c. Data Validation Tables. Semivolatile Organic Compounds | spuno | | |
|-------------------------|----------------------------------------|----------------------|----------------------------------------|-------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------|----------------------------------|-------------------------------------------|-------------------------------------|
| SAIC Sample Number | Laboratory Identification Number | Date Collected | Date Extracted | Date Analyzed | Semivolatile Surrogate Recovery | Senavolatie MS/MSD Analyzes | Semivolatie Blank Analyses | Semivolatie Tuning/Mass Calibration | Semvolatie Internal Standards |
| BATCH \$5192 \$D4-01 | 90022402 | 8 | 14-90 | 2 | ALLOK | | ERPERENTS | ALL DPTPP | (09/20/90) |
| SD4-02 | 90022403 | 08-31-90 | 09-14-90 | 09-21-90 ALL OK | ALLOK | | DETECTED | CRITERIA | ALL ARÉAS WERE |
| SB1-04-01 | | 06-90-60 | 14-8 | 09-21-90 | ALCK | | | WITHINCONTROL | |
| SB1-0-18 | | 06-90-60 60-80-80 | <u>-8</u> | 09-21-90 | ALLOK | | | LIMITS | LIMITS |
| SB1-04-03 | | 06-90-60 | 09-14-90 | 09-21-90 ALL OK | ALLOK | | | (08/27/80) | (08/21/80) |
| | | | | | | | | | WITHIN CONTROL |
| SB1-04-04 | 90023604 | 06-90-60 | 09-14-90 | 14-90 09-21-90 56(10) | S6 (10) | | | | LIMITS |
| | | | | | | | | | |
| ; | | \$ | DATE | 09-21-90 ALL OK | ALLOK | | | | |
| SB1-04-04 | 90023604MSD 90023604MSD MB192 | 06-90-60 | 09 - 14 - 90 - 14 - 90 - 14 - 90 | 09-21-90 ALL OK 09-21-90 ALL OK 09-21-90 ALL OK | ALOK ALOK | PCP(0 %R) | | | |
| | | | | | | | | | |

| | Laboratory | Initial | Continuing | Trip | Field | Equipment |
|------------------------|-------------------------------------|----------------------------------|----------------------------------------|-----------------------|-----------------|-----------|
| SAIC Sample | Identification | Calibration | Calibration | Blank | Blank | Blank |
| Number | Number | SPCC/CCC | SPCC/CCC | Analysis | Analysis | Analysis |
| BATCH SS192 | | | | | | |
| SD4~01 | 90022402 | 09-19-90 (CASE # SS192) | 2 CCVs APPLY | ٧× | FB-01,-02 | EW-03 |
| SD4-02 | 90022403 | DAILY (09-19-90) TUNE IN CONTROL | 09-20-90 (CASE # SS192) | × | FB-01,-02 | EW-03 |
| SB1-04-01 | 90023601 | ALL SPCC RRF > 0.050 | ALL SPCC RRF50 > 0.050 | × | FB-01,-02 | EW-03 |
| SB1-04-02 | 90023602 | CCC %RSD < 30% | CCC %D < 25% | ¥X | FB-01,-02 | EW-03 |
| SB1-04-03 | 90023603 | | 09-21-90 (CASE # SS192) | ۲ ۲ | FB-01,-02 | EW-03 |
| | | | ALL SPCC RRF50 > 0.050 CCC %D < 25% | | | |
| SB1-04-04 | 90023604 | | | Y _N | FB-01,-02 EW-03 | EW-03 |
| | MBS192 | | | | | |
| SB1-04-04 SB1-04-04 | 90023604MSD 90023604MSD MB192 | | | ₹ ₹ Z Z | | |

| | | Table F-9c. Data Validation Tables: Semivolatile Organic Compounds (Continued) | Organic Compounds (Continued) | |
|-------------|----------------|--------------------------------------------------------------------------------|-------------------------------|-------------|
| | Laboratory | Significant | | Tentstively |
| SAIC Sample | Identification | Sample | Data | Identified |
| Number | Number | Results | Qualifiers | Compounds |
| BATCH SS192 | | | | |
| 3D4-01 | 90022402 | ALL ND | None Applied | NO TIC DATA |
| SD4-02 | 90022403 | ALL ND | None Applied | PROVIDED |
| SB1-04-01 | 90023601 | ALL ND | None Applied | |
| SB1-04-02 | 90023602 | ALL ND | None Applied | |
| SB1-04-03 | 90023603 | PHAN(3601),FLA(730),PYR(730),BZAA(560), | None Applied | |
| | | CHRY(620),BZBP(720),BZKP(800), | : | |
| | | BZAP(790),INP123(610), | | |
| | | DBAHA(260J)BZGHIP(760) | | |
| SB1-0-0 | 90023604 | PHAN(1100),ANTH(280J),FLA(1100),PYR(1000), | None Applied | |
| | | BZAA(530),CHRY(560),BZBF(530), | | |
| | | BZKF(580),BZAP(540), | | |
| | | INP123(330J), DBAHA(370J) | | |
| | MBS192 | Not Applicable | | |
| SB1-04-04 | 90023604MS | Not Applicable | | |
| SB1-04-04 | 90023604MSD | Not Applicable | | |
| | MB192 | Not Applicable | | |
| | | | | |

Footnotes to Table F-9a through F-9c.

N-nitroso - di - n - propylamine (NNSPR), Hexachlorocyclopentadiene (HCCP), Phenol (PHENOL), 1,4-Dichlorobenzene (DCBZ14), 2-Nitrophenol (NTPH2), Pentachlorophenol (PCP), Fluoranthene (FLA), Di – n – octyphthalate (DNOP), 4-Chloro-3-methylphenol (C4M3PH), 2,4,6-Trichlorophenol (TCP246), 2,4-Dichlorophenol (DCP24), Hexachlorobutadiene (HCBU), Acenaphthene (ACNP), N-nitrosodiphenylamine(1) (NNSPH) 2,4 - Dinitrophenol (DNP24), and 4-Nitrophenol (NTPH4) N-Nitroso-di-n-propylamine: 41-116, %RPD= 38 N-Nitroso-di-n-propylamine: 41-126, %RPD= 38 4-Chloro-3-methylphenol: 26-103, %RPD= 33 Control Limits for Water SVOA Surrogate Recovery Control Limits for Water SVOA MS/MSD Analyses 4-Chloro-3-methylphenol: 23-97, %RPD= 42 Control Limits for Soil SVOA Surrogate Recovery System Performance Check Compounds (SPCCs): Control Limits for Soil SVOA MS/MSD Analyses 1,2,4-Trichlorobenzene: 38-107, %RPD= 23 1,2,4-Trichlorobenzene: 39-98, %RPD= 28 1,4 - Dichlorobenzene: 28 - 104, %RPD = 27 1,4-Dichlorobenzene: 36-97, %RPD= 28 Pentachlorophenol: 17-109, %RPD = 47 2,4-Dinitrotoluene: 28-89, %RPD= 47 2,4-Dinitrotoluene: 24-96, %RPD= 38 Pentachlorophenol: 9-103, %RPD= 50 2-Chlorophenol: 25-102, %RPD= 50 2-Chlorophenol: 27-123, %RPD= 40 4-Nitrophenol: 11-114, %RPD= 50 Calibration Check Compounds (CCCs): (S6) 2,4,6-Tribromophenol: 10-123 (\$6) 2,4,6-Tribromophenol: 19-122 Acenaphthene: 31-137, %RPD= 19 Acenaphthene: 46-118, %RPD= 31 4-Nitrophenol: 10-80, %RPD= 50 (S1) Nitrobenzene-d5: 35-114 (S2) 2-Fluorobiphenyl: 43-116 (S1) Nitrobenzene-d5: 23-120 (S2) 2-Fluorobiphenyl: 30-115 (\$5) 2-Fluorophenol: 21-100 (S5) 2-Fluorophenol: 25-121 Pyrene: 26-127, %RPD= 31 Pyrene: 35-142, %RPD= 36 Phenol: 26-90, %RPD= 35 and Benzo(a)pyrene (BZAP) Phenol: 12-86, %RPD= 42 (S3) Terphenyl: 18-137 (S4) Phenol-d5: 24-113 (S3) Terphenyl: 33-141 (S4) Phenoi - d5: 10 - 94

Footnotes to Table F-9a through F-9c (Continued)

Semivolatile Internal Standard Area Summary Compounds: bis - (2 - Ethylhexyl)phthalate = BIS2EHP bis(2 - Chloroethoxy)methane=BECEM 4-Chloro-3-methylphenol=C4M3PH Butybenzylphthalate = BTBZNATE 3,3'-Dichlorobenzidine=DBZD33 2-Methylnaphthalene=MTNPH2 1,4 - Dichlorobenzene - d4 (DCB) 1,2,4 - Trichlorobenzene = TCB124 Abreviations used for compounds: 2,4 - Dimethylphenol - DMPH24 2 - Chloronaphthalene = CNPH2 SSR-surrogate spike recovery BHT-extraction holding time Hexachlorobutadiene = HCBU Di-n-octylphthalate=DNOP 2,4 - Dichlorophenol = DCP24 Benzo(a)anthracene=BZAA Sample result data qualifiers: Acenaphthene-d10 (ANT) -estimated concentration Phenanthrene-d10 (PHN) Dibenzofuran = DBZFUR 4-Chloroamiline=4CLAN 2-Nitrophenol=NTPH2 Naphthalene-d8 (NPT) R - analysis was rejected Nitrobenzene=NO2BZ Phenauthrenc=PHAN Chrysene-d12 (CRY) Perylene-d12 (PRY) Naphthalene-NAPH NA - Not Applicable IS-internal standard Anthracene= ANTH Fluoranthene FLA ND-none detected Isophorone=ISOP Chrysene = CHRY U-not detected Pyrene-PYR

Indeno(1,2,3-cd)pyrene-INP123

Benzo(a)pyrene=BZAP

Benzo(b)fluoranthene=BZBF Benzo(k)fluoranthene=BZKF Dibenz(a,h)anthracene-DBAHA

Benzo(g,h,i)perylene BZGHIP

| | Tabouton | | | | Communication | demivries le | Semiwalstile | Sembolatile | Seminoledle |
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| AAIC Sample Number | Identification Number | Date Collected | Date | Date Analyzed | Surrogate Recovery | MS/MSD Amlynes | Blenk Analyses | Turing Mass Calibration | Internal Standards |
| WATERS 18 14 1.1 18 14 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 15 1.1 18 | ME73.5 16.26 16.26 19.37 19.37 19.39 19.30 19.30 16.37 16.37 16.37 18.30 | AN 1940011 1940011 1940011 1940011 1940011 1940011 1940011 1940011 1940011 1940011 | 14/0/11 14/0/11 14/0/11 14/0/11 14/0/11 14/0/11 14/0/11 14/0/11 14/0/11 | 1200/91 1200/91 1200/91 1200/91 1200/91 1200/91 1200/91 1200/91 1200/91 | ATE RECOVERES WITHIN MITS FOR WATER CEPTION OF WATER CONTROL OF CEPTION (1976) AS THE 1976 (1976) AS THE 1976 (1976) AS THE 1976 (1976) AND MAN DEVELOR MED (1976) AND MAN DEVELOR MED (1976) | AWI-EE ALL RECOVERY AND DIPPERENCY AVALUES WITHIN LANTS DEVETER ECOVERES: CHAISPI- 60% MS, 10% MSD(9%); DNT24- 60% MS, 11% MSD(9%); AND PCP-12% MS, 12% MS, 12% MSD(10%) | NO BYTERFERENCE DETECTED, TIC TOTAL-0 | DRITO HOLIAL DETEPTUNDO AND MASS CALIBRATION CALTESIA WITHIN CONTROL LIMITS (1203,0491) | DCB, NPT, ANT, PHN, CRY, AND PRY, ALLAREAS AND RETRYTON TRASS WERE WITHEN CONTROLLAMITS AND WINDOWS, RESPECTIVELY. |
| WATERS WAWI-01 MWI-01 MWZ-08 MWZ-08 PRZ-1 FRZ-1 FRZ-1 FRZ-1 | MB742 14854 14856 14856 14866 MB744 1486 | 14/0/11 14/0/11 14/0/11 14/0/11 14/0/11 14/0/11 | 11/8//11 11/20/01 11/20/01 11/20/01 11/20/01 11/20/01 11/20/01 | 12/1491 (2/1291 (2/1291 (2/1291 (2/1291 (2/1291 (2/1291 (2/1491 (2/1491 | ALL SURROCATE RECOVERES WITHIN (SEE ANALYSES FOR [<u>NW1-ER</u>) CONTROL LIMIT FOR WATER CONTROL LIMIT FOR WATER SAMPLES, EXCEPT [NW1-EL] NEZ-11 (18), [NW1-EL] THE 21% (19%) AND [E-B] TPH-21% (19%) | | NO DYTERFERENCE DETECTED, TIC TOTAL=0 NO DYTERFERENCE DETECTED, TIC TOTAL=0 | DNET P HP1.ALL DNETP TUNING AND MASS CALIBRATION CONTROL LIMITS 2 TUNIS APRIX: (12/12/1991) | DCS, NPT., ANT, PHN, CRY, AND RTY, ALLANEAS AND REFERTION TRUES WERE WITHEN CONTROL LIMITS AND WINDOWS, RESPECTIVELY. |
| SOLLS SRUZ2 189-2-1 180-1-6 180-1-6 180-1-9 181-1-1 181-1-2 181-1-2 181-1-2 | MR737 13473 13473 13176 13176 13189 13189 13189 | NA 19,12(0) 19,12(0) 19,12(0) 19,12(0) 19,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) 11,12(1) | 16/07 1 16/07 1 16/07 1 16/07 1 16/07 1 16/07 1 16/07 1 16/07 1 16/07 1 16/07 1 16/07 1 | 12/04/91 12/04/91 12/04/91 12/05/91 12/05/91 12/05/91 12/05/91 12/10/91 | ALL SURROGATE RECOVERES WITHIN CONTROL LMITS FOR SOIL SAMPLES | SBL = Z-Z ALL RECOVERY AND DIFFERENCE VALUES WITHEN LAITS ENCEST RECOVERRES. DATA = 500 MS(870), AND RDE: PLENOL = 300 K(370), DOZZL = 400 (270), NNSTR = 450 (390), TORZL = 410 (270), AND ACAP = 310 (190) | NO INTERFERENCE DETECTED, TIC TOTAL=3 | DETP TUNDO AND DETP TUNDO AND DETP TUNDO AND CALIBRATION CRITERIA WITHEN CONTROL LIMITS. (1203,04,05,04,11,1391) | DOS, NPT, ANT, PHN, CRY, AND PRY: ALL ARRAS AND RETRETION TERS WER. WITHIN CONTR.O.L. LABITS AND WINDOWS, RESPECTIVELY. |
| BOI-1-2 BOI-1-3 BOI-1-1 BO2-1-1 BO2-1-2 BO2-1-3 SBI-2-1DL SBI-2-3 SBI-2-7 SBI-2-7 | 7/4/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/5/ | 14/20/11 14/20/11 14/20/11 14/20/11 14/20/11 14/20/11 14/20/11 14/20/11 14/20/11 14/20/11 14/20/11 | 14/00/11 14/00/11 14/00/11 14/00/11 14/00/11 14/00/11 14/00/11 14/00/11 | 12/05/91 12/05/91 12/05/91 12/05/91 12/05/91 12/05/91 12/05/91 12/05/91 12/05/91 12/05/91 12/05/91 12/05/91 | | | | | |
| SOLS SOLS SOLS SELA-1-4 SELA-1-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 SELA-1-3-4 | | 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 | 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 16/00/11 | | ALL SURROOATE RECOVERES WITHIN CONTROL LIGHTS FOR SOIL SAMPLES. 278-279-138-1279, DCB=1146 (29%) AND SEA-1-6 (19%) AND SEA-1-6 (19%) AND SEA-1-6 (19%) DCB=1166 (29%) | SEMA | NO INTERFISION CS DETECTED, TIC TOTAL = 1 | DRIFE PERIALL DETER TURING AND MASS CALIBRATION CONTRICT WITHER CONTRICT LANGES (12/14/11/12/49!) | DCB, NFT, ANT, PHB, CRY, AND FRY: ALL ANGA AND RETHTON TOWN BY WERE WITHEN CONTROLLEMTS AND WINDOWS, RESPECTIVELY, EXCEPT THE AREA FOR [BIA - 2-1 MB] FOR FRY |
| 581 - 3-1 581.4 - 3-9 581.4 - 3-9 581.4 - 3-1 581.4 - 1-1 581.4 - 2-1 581.4 - 2-1 581.4 - 2-1 | 1429 1520 1520 1520 1520 1520 1520 1520 1530 1530 1530 1530 1530 1530 1530 153 | 1490/11 1490/11 1490/11 1490/11 1490/11 | 11/00/51 11/00/51 11/00/51 11/00/51 11/00/51 | 14/1/21 14/1/21 14/1/21 16/1/21 16/1/21 | | | | | |

| | | Inchers Air National Guard Base, F | Indiana Air National Guard Base, Port Wayne, Indiana (Continued) | | |
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| SAIC Sample Number | Laboratory Késatification Nember | Initial Cultration | Controling Odibriton | Ffeld Blank Amslynis | Equipment Blank Assiysis |
| WATERS 18E4.1 18E4.1 18E4.1 18E4.1 19E4.1 19E4.1 19E4.1 10W.1.4 10W.1.43 10W.1.43 10W.1.43 10W.1.43 | MB735 M 14346 M 14346 M 14377 M 15379 M 15379 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 1437 M 143 | 120091 (DOT 0 191) DAILY TURE DO CONTROL ALLERE > 0.00 WRED < 40% | 120891 (NNT # HF1) DALLY TUNE IN CONTROL ALLERESO > AND %D < 40% 120491 (NNT # HF1) DALLY TUNE IN CONTROL %D < 40% | A X X X X X X X X X X X X X X X X X X X | NA NA NA EBA-1,1-1 NA NA EBH-1 EBH-1 EBH-1 EBH-1 EBH-1,1-1 |
| WATERS SELKS MW1-01 MW2-04 MW2-0-1 FB2-1 SELKS | MB742 M48742 14354 14356 14396 14396 MB746 14398 | L20091 (DIST 8 HP1) DALLY TUNE IN CONTROL LALBRY > 0.00 NEBD < 40% LALBRY > 0.00 LALBRY > 0.00 ALBRY > 0.00 WASD < 40% WASD < 40% | 12/1281 (RNST # 1971) DALLY TUNE BN CONTROL ALLERPS DO A COON 12/1491 (RNST # 1971) DALLY TUNE IN CONTROL ALLERPS DO A COON ALLERPS DO A COON | 782-1 783-1 783-1 783-1 784-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 874-1 | M M M M M M M M M M M M M M M M M M M |
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| | | Inche F - Xe. soundeme of guas Compount Lein Valuenton Warmens Indiana Air National Ount Base, Fort Wayne, Indiana (Continued) | unic Compound Data VI d Base, Port Wayne, Ind | elidarion Workshoess fam (Continued) |
|------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SAIC Sample | Laboratory Edentification Number | Significant Sumple Breatha | Tentatively Mentified | Data Validation Conflictor |
| WATERS | Jahran | | Components | |
| SPCKI | MEBTS | Name Detected | 9 | |
| #84A-1 | | None Detected | 96 | None Applied |
| MW1-02 | 14367 | Nose Detected | 13(1) | Nose Applied |
| 1-842 | 1363 | None Detected None Detected | 6 | None Applied None Ambled |
| 1-16 | 18299 | Nose Detected | 9 | Nose Applied |
| OW1-1 | 1930 | Nose Detected | (E) (E) | All compounds = R(19R) All communications |
| MWI-02 MS | 14367 3455 | Not Appliable Not Appliable | Data Not Provided Data Not Provided | Not Applicable Not Applicable |
| WATERS | | | | |
| SELEC | MB742 | None Detected | 9 | |
| 19-2454 | 188 | None Detected | 25 | Nose Applied |
| MW3-618 | 1436 | None Detected | 6 | None Applied |
| 1-018 | 1481 | None Detected | E | None Applied |
| 7-e | M8744 1439 | None Detected None Detected | ee | Nose Applied |
| SOUR | | | | |
| 2 | | None Detected | | |
| S 20 3 - 1 | 13174 | PHAN - 350FLA - 660/FVR - 560/BULEHP - 240/ | (R) | None Applied |
| 4.00 - 16 | | None Deleted | | |
| 0-1-088 | | None Detected | | |
| 1-1-100 | 20151 | None Detected Ab/DSI = 1000 = 100 | (SE) OMA: | None Applied |
| 8-1-188 | | None Detected | | |
| 1-1-104 | | DYT24=3400NNSPH=800FILA=600FLA=1500/ PYE=1400NZAA=1000NZRP=2200/ | | |
| i | | 12.A7=1100 p.gltg | | |
| 7-1-104 | | MS2EHF = 570/EZFF = 1000 µg/kg | | į |
| | 1251 1251 | None Detected Name Detected | 12670 (20) | Nose Applied Nose Applied |
| 1-1-10 | | None Detected | | |
| 802-1-9 | | None Detected | | Nose Applied |
| 314-2-10F | | FL. = 30003/774A = 100003/AVI 11=22003/ FLA = 130003/FYR = 94003/BZAA = 4400D/ | | |
| 8B1-2-3 | | CHRY = 43000/62.0F = 69000/62.AP = 36000 p.g/t.g. None Detected | 7650(11) | Nose Applied |
| 3 PK - 2 - 5 | | None Detected | (21) O. 6. | None Applie |
| SEL-1-7 | | None Detected | (91) | None Applied |
| SBI -2-7 MS SBI -2-7 MSD | ISM MSD | Not Applicable Not Applicable Do | Date Not Provided Date Not Provided | Not Applicable Not Applicable |
| \$31Q | | | | |
| SBLKe | METSE | Nose Detected | 130(1) | Address Annual Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro |
| 89th-1- | | None Detected | | All compound = U4(38K) |
| 38(A-V-) | | Nose Detected | | Note Applied |
| 80 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | | None Detected | | Nose Applied |
| SBIA-1-5 (be round) |) 1332 (M round) | None Detected | | None Applied |
| \$61A-1-9 \$61A-1-9 | | None Detected | | None Applied |
| 384A-3-2 | 585 | None Detected | 0 | None Applied |
| 861-3-5 | | None Detected | | All compound = R(SSR) |
| 504.7-2-20C | 1420 | ACAP = 19000 APCS ACAP = 19000 APCS ACAP = 140/052FUR = 71.1/FL = 140/FHAN = 1400/ | | None Applied |
| | | ANTH-1204CAR-2304FLA-15007FYR-1700/ BZAA-740KSRY-730/EZBF-1300/EZAF-540/ | | : |
| Ţ | | INP129=570J pgkg Ft A = 400,FYR = \$40,FR2 AP = \$40,FR2 AP = [40] asks | £25 | |
| 80KA-3-3 | | FLA-BLIFFE =94J ggkg | (E) | |
| SBIA-1-2 (M round) | 13391 (Mr round) | FLA-1001 parts | 21000 | Nose Applied |
| 8BIA-2-1 | | FLA=610FTR=620723F=1300722AP=660 INP123=906 4461 | 16780 (18) | |
| SBIA-2-1 MS | 1324.145 | Not Applicable | Data Not Provided | No Applicate |
| - Comme | 2 | | | |

| | | | | | Table F-9: Semivolatile Organ Indiana Air National C | Table F-9s. Semivolatile Organic Compound Data Validation Worksheets Indiana Air National Oun of Bees, Port Wayne, Indiana | | | | <u> </u> |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|
| SAIC Sample Number | Laboratory Eduntification Number | Date Collected | Date Estimated | Date Analyzed | Semivolatile Surrogate Recovery | Sembrodatio MS/MS/D Ambyres | Semivolatile Bank Ambras | Seasivoletile Tuning/Mess Oaliberiles | Semivoledie Internal Semiderde | T |
| 80E.8 181.7 181.2-9 (strough) 185.1-1 185.1-1 | MB730 14555 (is round) MB736 1300 (5285 | NA 11,020,11 NA 10,020,11 11,00,01 | 16/2/11 16/2/11 16/2/11 16/4/11 16/4/11 | 1878/21 1878/21 1878/21 1878/21 1878/21 | ALL SURROGATE RECOVERES WITHIN CONTROL LIMITS FOR SOIL SAMPLES. CONTROL LIMITS FOR SOIL SAMPLES. FIRE-OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), AND [SEE] NEZ-OW, (1996), AND [SEE] NEZ-OW, (1996), AND [SEE] DCB—OW, (1996), AND [SEE] DCB—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PILL—OW, (1996), PIL | _ | NO BYTEAUTRANCE DETECTED, TIC TOTAL = 0 NO BYTEAUTRANCE DETECTED, TIC TOTAL = 0 | MAT # HELL ALL DATE TUNION AND MASS CALIBATION CONTROL LANTH CONTROL LANTH I TUNE AFFLER (121 991) | DCS, NTT, ANT, PHN, CRY, AND PRY, ALLARASA AND RETEMPTOR TRESS WER. WITHEN CONTROL LAMITS AND WINDOWS, RESPECTIVITY. | T |
| SOIL.5 188.Kp 188.Kc -1-2 (2ndrowed) 1329 (2nd rowed) 188.Ku 188.Ku 1-3 (2ndrowed) 1322 (2nd rowed) | MBYZ: 1381 (And round) MBY95 1382 (And round) | 1470/11 NA 11/0/11 | 12/2/21 12/2/21 12/2/21 | 12/24/91 12/24/91 01/08/92 01/08/92 | ALL SURRODATE RECOVERIES WITHIN CONTROL LIMITS FOR SOIL SAMITES | (\$BRAESULTS ASSOCIATED WITH [\$BLA-I-Z(JE ESHED)) (\$EERESULTS ASSOCIATED WITH [\$BLA-I-Z(JE ESHED)) | BNTEAPERINGE DETECTED, TIC TOTAL-1 NO BNTEAPERINGS DETECTED, TIC TOTAL-1 | DRITO HPILALL DETER TUBBOG AND MASS CALIBEAT WITHIN CONTROL LAMIT. 2 TUBBS APPLY: (127491,014972) | DCS, NPT, ANT, PHN, CR.Y, AND PRY, ALL, AREA, AND RETERTION TIMES WER. WITHEN CONTR. CL. LIMITS AND WINDOWS, RESPECTIVELY. | |
| SOIL.S SBL-Zi. SBL-2-Sk (2ndround) 14355 (2nd round) | MINOCC 14559 (2nd romed) | NA LLARAL | 01/09/92 | 04/18/92 | ALL SURROGATE RECOVERES WITHD (CONTROL LBHITS FOR SOIL SAMPLES | (488.885 U.Ts ASSOCIATED WITH (5 <u>81-1-2 & (brownfi</u>)) | NO BITERPERENCE DETECTED, TIC TOTAL=4 | BNST # HP1.ALL DETPT FILSHO AND MASS CALERATOR CRITICAL WITHER CONTROL LIMITA. I TUNES APPLES. (04.1872) | DCS, NPT, ANT, PHN, CRY, AND PRY, ALL AREA, AND RESTRICTION TOMB WIRE WITHEN CONTR. CA. LIMITS AND WINDOWS, RESPECTIVELY. | |

| SAIC Sample | Laboratory Identification | Initial | Continuing | Field Rlank | Equipment Rlank |
|------------------------------------------------|------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------|--------------------|
| | Number | Calibration | Calibration | Analysis | Analysis |
| SOILS | | | | | |
| | MB720 | 12/13/91 (INST# HP1) | 12/14/91 (INST# HP1) | YN T | YN I |
| -5K (1st round) | 14353 (1st round) | DAILY TUNE IN CONTROL: | DAILY TUNE IN CONTROL: | FB2-1 | EB2-1 |
| SB3-1-1 | MB/30 | &RSD < 40% | %D < 40% | 1-134-1 1-174-1 | 1 de 1 |
| SB1A-1-5 | 13293 | | | FB1-1 | EB4-1 |
| | | | | | |
| SOILS | M B782 | 12/13/01 (INST# HP1) | 12/24/91 (INST# HP1) | Ž | ₹ |
| 1-2 (2nd round) | 13291 (2nd round) | DAILY TUNE IN CONTROL: ALL RRF > 0.010 | DAILY TUNE IN CONTROL: ALL RRF50 > 0.010 | FB1-1 | EB4-1 |
| SBLK10 | MR705 | %RSD < 40% | %D < 40% 01/08/02 (INST# HPI) | ¥ | Ž |
| -3 (2nd round) | 13292 (2nd round) | | DAILY TUNE IN CONTROL: ALL RRF50 > 0.010 %D < 40% | FB1-1 | EB4-1 |
| | | | | ; | ; |
| MB802 SB1-2-5R (2ndround) 14353 (2nd round) | M B802 14353 (2nd round) | 01/19/92 (INST# HP1) DAILY TUNE IN CONTROL: ALL RRF > 0.010 %RSD < 40% | 01/19/92 (INST# HP1) DAILY TUNE IN CONTROL: ALL RRF50 > 0.010 %D < 40% | NA FB2-1 | NA EB2-1 |

| SAIC Sample Number | Identification Number | Sample Results | Identified Compounds | Validation Qualifiers |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| SOILS SBLK6 SBL-2-5R (1st round) SBLK7 SB3-1-1 SB1A-1-5 | MB720 14333 (ist round) MB736 13109 13293 | None Detected None Detected None Detected BISZEHP=2400X µg/kg None Detected | 6 (0) 1390 (7) 0 (0) 6720 (11) 4990 (15) | |
| SOILS SELK9 SB1A-1-2 (2nd round) 13291 (2nd round) SBLK10 MB795 SB1A-1-3 (2nd round) 13292 (2nd round) | MB762 13291 (2nd round) MB795 13392 (2nd round) | DEPH=2300 µg/kg DEPH=2400EPHAN=3300/FLA=790PYR=810/ BZAA=510CHRY=590/BZBF=710/BZ/RF=860/ BZAD=800/1NP123=570/BZ/GHIP=700 µg/kg Nome Detected PYR=631 µg/kg | 260 (1) 830 (2) 460 (2) 1340 (6) | DEPH.PHAN,FLA,PYR,BZAA,CHRY,BZBF,BZKF,BZAP,INP123,BZOHIP=J(EHT) All other compounds=R(EHT) PYR=631(EHT)/All other compounds=R(EHT) |
| SOILS SBLK11 SB1-2-5R (2nd round) 14353 (2nd round) | MB902 14333 (2nd round) | None Detected None Detected | 800 (4) 20320 (19) | All compounds= R(EHT) |

Footnotes to Table F-9d and F-9e. Semivolatile Organic Compound Data Validation Worksheets Indiana Air National Guard Base, Fort Wayne, Indiana

Control limits for Water SVOC Surrogate Recovery

Nitrobenzene—d5 (NBZ): 35–114

2-Fluorobiphenyl (FBP): 43-116 Terphenyl-d14 (TPH): 33-141

Phenol – d5 (PHL): 10 – 110

2-Fluorophenol (2FP): 21-110

2,4,6—Tribromophenol (TBP): 10—123 2—Chlorophenol—d4 (2CP): 33—110 (advisory)

1,2-Dichlorophenol-d4 (DCB): 16-110 (advisory)

Control Limits for Soil SVOC Surrogate Recovery

Nitrobenzene-d5 (NBZ): 23-120

2-Fluorobiphenyl (FBP): 30-115

Terphenyl-d14 (TPH): 18-137 Phenol-d5 (PHL): 24-113

2-Fluorophenol (2FP): 25-121

2,4,6-Tribromophenol (TBP): 19-122 2-Chlorophenol-d4 (2CP): 20-130 (advisory)

1,2-Dichlorophenol-d4 (DCB): 20-130 (advisory) Control Limits for Water SVOC MS/MSD Analyses

Phenol (PHENOL): 12–110, %RPD= 42

2-Chlorophenol (CLPH2): 27-123, %RPD= 40 1,4-Dichlorobenzene (DCBZ14): 36-97, %RPD= 28

N-Nitroso-di-n-propylamine (NNSPR): 41-116, %RPD= 38 1,2,4-Trichlorobenzene (TCB124): 39-98, %RPD= 28

4-Chloro-3-methylphenol (C4M3PH): 23-97, %RPD= 42 Acenaphthene (ACNP): 46-118, %RPD= 31

4-Nitrophenol (NTPH4): 10-80, %RPD= 51

2,4-Dinitrotoluene (DNT24): 24-96, %RPD= 38 Pentachlorophenol (PCP): 9-103, %RPD= 50

Pyrene (PYR): 26-127, %RPD= 31

Footnotes to Table F-9d and F-9e. Semivolatile Organic Compound Data Validation Worksheets Indiana Air National Guard Base, Fort Wayne, Indiana (Continued)

D-the compound was analyzed at a secondary dilution factor after exceeding the calibration range of the instrument on the first analysis. X-identification criteria not met, but presence is strongly suspected uning and mass calibration performed with decastuo rotriphenylphosphine (DFTPP). B-the reported value is estimated due to the presence of interference N-Nitroso -di - n - propylamine (NNSPR): 41 - 126, %RPD= 38 1,2,4 - Trichlorobenzene (TCB124): 38 - 107, %RPD= 23 4-Chloro - 3 - methylphenol (C4M3PH): 26 - 103, %RPD= 33 Acenaphthene (ACNP): 31 - 137, %RPD= 19 semivolatile Internal Standard Area Summary Compounds: 1,4-Dichlorobenzene (DCBZ14): 28-104, 96RPD= 27 24-Dinitrotoluene (DNT24): 28-89, %RPD= 47 Pentachlorophenol (PCP): 17-109, %RPD= 47 Pyrene (PYR): 35-142, %RPD= 36 Phenol (PHENOL): 26-90, %RPD= 35 2-Chlorophenol (CLPH2): 25-102, %RPD= 50 4-Nitrophenol (NTPH4): 11-114, %RPD= 50 Control Limits for Soil SVOC MS/MSD Analyses bis -- (2 - Ethylhexyl)phthalate = BIS2EHP N-Nitrosodiphenylamine (1)-NNSPH indeno(1,2,3-cd)pyrene=INP123 1,4-Dichlorobenzene-d4 (DCB) RPD-relative percent difference Abreviations used for compounds Benzo(g,h,i)perylene=BZGHIP Benzo(b)fluoranthene = BZBF Benzo(k)fluoranthene = BZKF EHT-extraction holding time SSR-surrogate spike recovery Avenaphthene—dio (ANT)
Phenanthrene—dio (PHN)
Chrysene—di2 (CRY)
Perylene—di2 (PRY) Benzo(a)anthracene=BZAA 2,4-Dinitrotoluene = DNT24 ample result data qualifiers. J-estimated concentration Dibenzofuran = DBZFUR 4-Methylphenol = 4MPH Diethylphthalate = DEPH Pentachlorophenol = PCP Berzo(a)pyrene=BZAP R-analysis was rejected Naphthalene-d8 (NPI) Acenaphthene = ACNP Phemanthrene-PHAN Anthracene = ANTH Fluoranthene=FLA Chrysene=CHRY Carbazole=CAR U-not detected Pyrene=PYR Fluorene=FL

Based on an evaluation of all environmental samples and field QC blanks analyzed for SVOCs using EPA Method 3550/8270 and the March 1990 CLP SOW, all holding time criteria were met, except for SB3-1-1 which was extracted 22 days after sample collection. As a result, the analytical results were qualified (i.e., "UJ[EHT]" and for undetected compounds and "J[EHT]" for detected compounds) to indicate that the results should be considered estimated due to the exceeded extraction holding time.

One equipment blank (i.e., EW-05), 1 groundwater sample (i.e., MW4-02), and 3 soil samples (i.e., SB1A-1-3 collected in 1990 and SB1A-1-2 and SB1-2-5 collected in 1991 were extracted more than 24 days beyond the applicable extraction holding time. As a result, all undetected results were rejected and all detected results were estimated (i.e., "R[EHT]" and "J[EHT]" respectively) to indicate the exceeded holding times.

Tuning and Mass Calibration Results — The first step in the calibration of the GC/MS system is the demonstration of satisfactory ionization and fragmentation of standard mass spectral tuning compounds. This was accomplished, in addition to a sensitivity check, using decafluorotriphenylphosphine (DFTPP) injected at a concentration near the instrument detection limit for EPA Method 8270 and the March 1990 CLP SOW protocol. This standard was analyzed every 12 hours to ensure that the GC/MS was tuned correctly. Tuning and mass calibration requirements used to evaluate the acceptable instrument operation are described in EPA Method and the March 1990 CLP SOW. Based on an evaluation of the ionization and fragmentation criteria, in addition to the instrument tune frequency, all DFTPP tuning and mass calibration criteria requirements were met.

Initial Calibration Results — After the tuning and mass calibration criteria were verified and before samples were analyzed, calibration of each GC/MS used to analyzed samples collected during the Indiana ANGB SI was established and validated by injecting traceable standards at five concentrations spanning the expected sample concentration range to determine instrument sensitivity and the linear range of each target compound. Initial calibration was conducted after the GC/MS tune criteria were met and before any samples were analyzed. The average RRF and percent RSD values for all SVOCs were evaluated to verify the validity of the initial

calibration. Initial calibration criteria requirements for SVOC analyses were described in EPA Method 8270 and the March 1990 CLP SOW. Based on an evaluation of the initial calibrations conducted for SVOC analyses, all criteria requirements were met.

Continuing Calibration Results — Every 12 hours, a CCV standard was analyzed. The continuing calibration was evaluated based on the magnitude of the RRFs and percent difference (%D) between the average RRF of each compound for the initial calibration and RRFs of that compound in the continuing calibration standard. Minimum RRF and maximum %D criteria are presented in EPA Method 8270 and the March 1990 CLP SOW. Based on an evaluation of the continuing calibrations conducted for SVOC analyses, all criteria requirements were met.

Internal Standard - Six internal standards (i.e., 1,4-dichlorobenzene-d₄, naphthalene-d₈, acenaphthene-d₁₀, phenanthrene-d₁₀, chrysene-d₁₂, and perylene-d₁₂) were added to each sample immediately before analysis as indicators of instrumental operating variations. concentrations of SVOCs detected were calculated with reference to the RF of the internal standard (IS) for each sample. IS area requirements were described in EPA Method 8270 and the March 1990 CLP SOW. Based on an evaluation of all analyses, all IS areas were within acceptable limits, except for naphthalene-d₈, chrysene-d₁₂ perylene-d₁₂ (i.e., area counts less than the lower minimum) in SB2-01-01. As a result, data validation qualifiers (i.e., "UJ[IS]") were applied to the applicable SVOC analytical results (i.e., nitrobenzene, isophorone, 2-nitrophenol, 2,4-dimethylphenol, bis(2-chloroethoxy)methane, 2,4-dichlorophenol, 1,2,4-trichlorobenzene, naphthalene, 4-chloraniline, hexachlorobutadiene, 4-chloro-3-methylphenol, 2-methylnaphthalene, pyrene, butylbenzyl phthalate, 3,3'-dichlorobenzidine, benzo(a)anthracene, bis(2-ethylhexyl)phthalate, di-n-octyl phthalate, benzo(k)fluoranthene, indeno(1,2,3-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene) to indicate that these values should be considered estimated.

Internal standard area criteria were not met for perylene- d_{12} in SB1A-2-1MSD. No data validation qualifiers were applied to the matrix spike duplicate sample.

System Performance Compound Summaries (Surrogate Recoveries) - Six compounds (i.e., nitrobenzene-d₅, 2-fluorobiphenyl, terphenyl, phenol-d₅, 2-fluorophenol, and 2,4,6-tribromo-phenol) were added to each sample to be analyzed using SW 8270 immediately before extraction. The control limits for surrogate recoveries in soil and water samples were described in EPA Method 8270. Eight compounds (i.e., phenol-d₅, 2-fluorophenol, 2,4,6-tribromophenol, nitrobenzene-d₅, 2-fluorobiphenyl, 2-chlorophenol, 1,2-dichlorobenzened₄, and terphenyl) were added to each sample to be analyzed using the CLP SOW prior to extraction. The control limits for surrogate recoveries in soil and water samples and the March 1990 CLP SOW. All surrogate recoveries were within the control limits, except nitrobenzene-ds (34 percent), 2-fluorobiphenyl (40 percent), terphenyl (28 percent), phenol-d5 (8 percent), and 2-fluorophenol (11 percent) in P-2 and nitrobenzene-d₅ (0 percent), 2-fluorophenyl (0 percent), phenol-d5 (0 percent), 2-fluorophenol (0 percent), 2-chlorophenol (0 percent), and 1,2-dichlorophenol-d₄ (0 percent) in SB1-2-5R. In addition, all surrogate recoveries were less than the lower control limits in the associated method blanks (i.e., MB214B and SBLK6) surrogate recoveries were outside the applicable control limits in GW1-1 (i.e., 2-fluorobiphenyl [15 percent], terphenyl [19 percent], and 2,4,6-tribromophenol [0 percent]); GW1-1RE (i.e., 2-fluorobiphenyl [15 percent], terphenyl [20 percent], and 2,4,6-tribromophenol [0 percent]); and SB1-2-5 (i.e., nitrobenzene-d₅ [16 percent], 2-fluorophenol [9 percent], and 1,2-dichlorophenol-d₄ [11 percent]. As a result, all P-2, SB1-2-5R, GW1-1, GW1-1RE and SB1-2-5 analytical results were rejected (i.e., "R[SSR]") and will not be included in the SI decision making process.

Surrogate recoveries did not meet the applicable control limits in SB2-01-01 (i.e., nitrobenzene-d₅ [134 percent] and 2-fluorobiphenyl [15 percent]) and SB1A-3-4R (nitrobenzene-d₅ [20 percent], 2-fluorophenol [12 percent], and 1,2-dichlorophenol-d₄ [13 percent]). Therefore, all SB2-01-01 and SB1A-3-4R analytical results have been estimated (i.e., "UJ[SSR]" for undetected compounds and "J[SSR]" for detected compounds) to indicate that the surrogate recoveries were outside the appropriate limits. Also, surrogate recoveries were outside the control limits in EW-05 (i.e., 2-fluorobiphenyl [33 percent]), FB-03 (i.e., 2-fluorobiphenyl [41 percent]), SB1-04-04 (i.e., 2,4,6-tribromophenol [10 percent]), MW1-01 (i.e., nitrobenzene-d₅ [118 percent]) collected in 1991, MW2-01R (i.e., terphenyl [23 percent]), and P-8 (i.e., 21 percent]) collected in 1991. No data validation qualifiers were applied to these environmental

samples, since the applicable surrogate recoveries values were greater than 10 percent and involved only a single system performance compound. Tables F-10 and F-11 summarize the surrogate recovery results for groundwater and soil samples.

Method Blank Results — One method blank analysis was conducted for each batch of water and soil samples received. Each method blank was evaluated for interferents that might potentially interfere with accurate quantitation of a target compound. According to CLP method blank criteria, a laboratory blank may not contain phthalate esters in concentrations five times greater than the CRQL or any other target compound in concentrations greater than the CRQL. Based on an evaluation of all method blanks analyzed for SVOCs using the March 1990 CLP SOW, no interferents were detected, except butyl benzyl phthalate (18 and 10 μ g/L) in the method blanks analyzed on August 24 and 26, 1991 (i.e., SBLK2 and SBLK5 respectively). This compound was not detected in the associated environmental samples; therefore, data validation qualifiers were not applied.

Blank Spike Recoveries — The surrogate recovery results of each method blank analyzed were evaluated as a method blank spike, as required by DOE/HWP-65/R1. Surrogate recovery control limits were described in the SOW prepared for the Indiana ANGB SI and the March 1990 CLP SOW. Based on an evaluation of all method blank spike analyses, the percent recoveries of all spike compounds were within acceptable limits, except nitrobenzene-d₅ (0 percent), 2-fluorobiphenyl (0 percent), phenol-d₆ (0 percent), 2-fluorophenol (0 percent), 2-chlorophenol-d₄ (0 percent), and 1,2-dichlorobenzene-d₄ (0 percent) in SBLK6. No data validation qualifiers have been applied to the environmental samples (i.e., SB1-2-5R) associated with SBLK6, since the analytical results in SB1-2-5R were rejected due to surrogate recovery values less than 10 percent. Also, surrogate recoveries were outside the control limits for MB181 (i.e., 2-fluorophenol [8 percent]) and for MB253R (i.e., 2-fluorobiphenyl [42 percent]). No data validation qualifiers have been applied to the associated environmental samples, since those surrogate recoveries were within the applicable limits.

TABLE F-10. SVOC SURROGATE RECOVERY QC SUMMARY: GROUNDWATER INDIANA ANGB FORT WAYNE, INDIANA

| PARAMETER | TOTAL NUMBER ANALYSES• | PERCENT RECOVERY RANGES | PERCENT RECOVERY NUMBER CONTROL LIMITS WITHIN CONTROL | NUMBER WITHIN CONTROL LIMITS | NUMBER OUTSIDE CONTROL LIMITS |
|------------------------|------------------------------|-------------------------------|-------------------------------------------------------|------------------------------------|-------------------------------------|
| NITROBENZENE-d5 | 37 | (21-118) | (35-114) | \$ | 3 |
| 2-FLUROBIPHENYL | 37 | (15-108) | (43–116) | ** | М |
| TERPHENYL-d14 | 37 | (19–131) | (33–141) | 33 | s |
| PHENOL-d5 | 37 | (1–84) | (10-110) | 35 | 7 |
| 2-FLUOROPHENOL | 37 | (2–99) | (21–100) | * | т |
| 24,6-TRIBROMOPHENOL | 37 | (2–108) | (10–123) | * | ю |
| 2-CHLOROPHENOL-44 | 18 | (61–86) | (33-110) | 18 | 0 |
| 1,2-DICHLOROBENZENE-d4 | 18 | (39–92) | (16–110) | 18 | 0 |

• GROUNDWATER, MATRIX SPIKE, MATRIX SPIKE DUPLICATE, METHOD BLANKS,TRIP BLANKS, FIELD BLANKS, EQUIPMENT BLANKS.

TABLE F-11. SVOC SURROGATE RECOVERY QC SUMMARY: SOIL/SEDIMENT INDIANA INDIANA ANGB FORT WAYNE, INDIANA

| * * * * * * * * | NUMBER RECOVERY ANALYSES RANGES | CONTROL LIMITS WITHIN CONTROL | NUMBER WITHIN CONTROL LIMITS | WITHIN OUTSIDE CONTROL LIMITS |
|----------------------------|---------------------------------|-------------------------------|------------------------------|-------------------------------|
| 300. 200. 201. 35 | | (23–120) | 82 | v s |
| 85 BY 85 BY 47 | | (30–115) | 980 | ю |
| 85 ENOL 85 | | (18–137) | 85 | 0 |
| BOOL 85 44 47 | | (24–113) | 8 | 2 |
| 85 | | (25–121) | 81 | 4 |
| 47 | | (19–122) | 83 | 8 |
| • | 47 (0–78) | (20-130) | 83 | 2 |
| | 47 (11-77) | (20-130) | 81 | 4 |

• SOIL/SEDIMENT, MATRIX SPIKE, MATRIX SPIKE DUPLICATE, METHOD BLANKS.

Matrix Spike/Matrix Spike Duplicate Results — MS/MSD analyses were conducted to assess the accuracy and precision of the laboratory and to evaluate the matrix effect of the sample upon the analytical methodology based upon the percent recovery of each compound. Accuracy was expressed as the percent recovery of the spike compounds. Precision was expressed as the RPD of the concentrations of the spike compounds in the MS/MSD samples. The control limits for percent recoveries in soil and water samples were described in EPA Method 8270 and the March 1990 CLP SOW. No action was taken based on percent recovery; however, MS/MSDs were evaluated to verify that 1 MS/MSD analysis was conducted for each 20 environmental samples received by the laboratory (excluding dilutions and reanalyses conducted), that these analyses were conducted on environmental samples only, and that the recovery and difference results did not indicate systematic laboratory control problems.

Four MS/MSD analyses (i.e., SB1-02-16, SB1-04-04, SB1-2-7, and SB1A-2-1) were conducted using soil samples collected during the Indiana ANGB SI. All percent recovery values were within the control limits, except for pentachlorophenol (0 percent) in SB1-04-04, 2,4-dinitrotoluene (89 percent) in SB1-2-7, and 4-nitrophenol (4 percent) in SB1A-2-1. All precision values were within the control limits, except phenol (36 percent), 1,4-dichlorobenzene (46 percent), N-nitroso-di-n-propylamine (45 percent), 1,2,4-trichloro-benzene (41 percent), and acenaphthene (31 percent) in SB1-2-7 and phenol (38 percent), 1,4-dichlorobenzene (37), N-nitroso-di-n-propylamine (44 percent), 1,2,4-trichlorobenzene (39 percent), 4-chloro-3-methyl phenol (39 percent), acenaphthene (37 percent), 4-nitrophenol (157 percent), and pyrene (57 percent) in SB1A-2-1. As a result, data validation qualifiers have been applied to pyrene (i.e., "620J[MSD]") in SB1A-2-1 due to the RPD value described above.

Two soil samples (i.e., SB1A-1-2 and SB1A-1-3), originally extracted on November 8, 1991, were spiked with matrix spike compounds by mistake. These samples were re-extracted on December 19, 1991, which was outside of holding time. Since accuracy and precision frequency criteria had been satisfied, these analytical results were not included in this review.

One MS/MSD analysis (i.e., MW1-02) was conducted using a groundwater sample collected during the Indiana ANGB SI. All percent recovery and differences values were within

the control limits, except 4-chloro-3-methyl phenol (103 and 106 percent recoveries), 2,4-dinitro-toluene (104 and 113 percent recoveries), and pentachlorophenol (122 and 126 percent recoveries). Tables F-12 and F-13 summarizes the MS/MSD results for groundwater and soil samples.

Significant Qualified Sample Results -- Data validation qualifiers (i.e., "UJ[EHT]" for undetected compounds and "J[EHT]" for detected compounds) have been applied to SB3-1-1 and to EW-05, MW4-02, SB1A-1-2 collected in 1991, SB1A-1-3, and SB1-2-5R collected in 1991 (i.e., "R[EHT] for undetected compounds and "J[EHT]" for detected compounds) to indicate that these sample were extracted outside the appropriate method holding time. Data validation qualifiers (i.e., UJ[IS]) have been applied to nitrobenzene, isophorone, 2-nitrophenol, 2,4-dimethylphenol, bis(2-chloroethoxy)methane, 2,4-dichlorophenol, 1,2,4-trichlorobenzene, naphthalene, 4-chloroaniline, hexachlorobutadiene, 4-chloro-3-methylphenol, 2-methylnaphthalene, pyrene, butylbenzyl phthalate, 3,3'-dichlorobenzidine, benzo(a)anthracene, bis(2-ethylhexyl)phthalate, di-n-octyl phthalate, benzo-(k)fluoranthene, indeno(1,2,3-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i,)perylene in SB2-01-01 to indicate that the applicable IS areas was outside the appropriate limits. Data validation qualifiers (i.e., "R[SSR]") have been added to P-2, SB1-2-5R, GW1-1, GW1-1RE, and SB1-2-5 and to SB2-01-01 and SB1A-3-4R (i.e., 'UJ[SSR]" for undetected compounds and "J[SSR]" for detected compounds) to indicate that the surrogate recoveries were outside the applicable control limits. Data validation qualifiers have been applied to pyrene (i.e., "J[MSD]") in SB1A-2-1 due to MS/MSD results. These qualifiers are applied to all data presented in the data summary tables within the SI report text and in the comprehensive data presentation tables in Appendix E.

F.3.1.4 Pesticide/PCB Analysis (EPA Method 3510/3550/8080)

Thirteen samples (i.e., 2 groundwater samples, 7 soil samples and 4 field QC blank samples) were collected and submitted to the NET Laboratory using EPA Method 8080 for water samples and soil samples. Data quality was evaluated using the guidelines and control limits specified for holding times, initial and continuing calibration verification, method blank spikes, method blanks, surrogate recoveries, MS/MSDs, and endrin/dieldrin breakdown described in the

TABLE P-12. SVOC MSMASD OC SUMMARY: GROUNDWATER INDIANA ANGB FORT WAYNE, INDIANA

| | | ACCURACY | | | | | | PRECISION | NOR | |
|----------------------------|----------------------------------|-------------------------------|-------------------------|-----------------------------------|------------------------------------|------------------------------|-----|--------------|------------------------------------------------------------|-------------------------------------|
| PARAMETER | MS/MSD TOTAL No. ANAL YSES | PERCENT RECOVERY RANGES | %R CONTROL LIMITS | NUMBER WITHIN CONTROLLIMITS | NUMBER OUTSDE CONTROL LIMITS | MSD TOTAL No. ANALYSES | RPD | RPD LDATT | NUMBER NUMBER WITHEN OUTSEDE CONTROL LIMITS CONTROL LIMITS | NUMBER OUTSIDE CONTROL LIMITS |
| Phenol | 77 | (27-07) | (12–110) | 2 | 0 | -1 | , | 43 | - | o |
| 2Chlorophenol | 8 | (21-01) | (27–123) | 7 | ۰ | | 51 | ş | *** | 0 |
| 1,4-Dichlorobenzene | 8 | (93-56) | (36–97) | 7 | 6 | - | • | 8 | - | 0 |
| N-Nitroso-di-n-propylamine | 7 | (26-06) | (41-116) | 8 | 0 | - | 7 | 38 | | 0 |
| 1,2,4-Trichlorobenzene | 7 | (96-96) | (36-66) | 77 | 0 | | = | 28 | - | 0 |
| 4-Chloro-3-methylphenol | 7 | (103–106) | (23-97) | • | 7 | - | • | 4 | - | 0 |
| Acensphihene | 7 | (99–100) | (46–118) | 7 | • | _ | • | 75 | - | • |
| 4-Nitrophenol | 8 | (02-20) | (10-90) | 8 | ۰ | _ | , | 8 | - | • |
| 2,4-Dinitrotoluene | 8 | (104–113) | (24–96) | • | 2 | | • | 88 | - | 0 |
| Pentachlorophenol | " | (122-126) | (9–103) | • | 7 | - | n | 8 | | ٥ |
| Pyrene | 7 | (93-26) | (26–127) | 7 | ۰ | | • | ន | • | • |

MATRIX SPIKE AND MATRIX SPIKE DUPLCATE ANALYSES PERFORMED ON SAMPLES MW1-02.

| | | ACCURACY | | | | | | PRECISION | NOIS | |
|----------------------------|---------------------------------|-------------------------------|-------------------------|------------------------------------|-------------------------------------|------------------------------|-------------|-----------|-----------------------------------|-------------------------------------|
| PARAMETER | MS/MSD TOTAL No. ANALYSES | FERCENT RECOVERY RANGES | %R CONTROL LIMITS | NUMBER WITHIN CONTROL LIMITS | NUMBER OUTSIDE CONTROL LIMITS | MSD TOTAL No. ANALYSES | RPD | RPD | NUMBER WITHIN CONTROLLIMITS | NUMBER OUTSIDE CONTROL LIMITS |
| Phenol | 40 | (43-66) | (26–90) | ₩ | 0 | • | [(-8)-38)] | 35 | 7 | 7 |
| 2-Chlorophenol | • | (43-72) | (25-102) | • | • | ₹ | [(-4)-38)] | S | • | 0 |
| 1,4 - Dichlorobenzene | • | (42-67) | (28–104) | • | • | • | [(-19)-46] | 23 | 7 | 7 |
| N-Nitroso-di-a-propylamine | ** | (47-89) | (41-126) | • | • | • | (4-45) | * | 7 | 7 |
| 1,2,4-Trichlorobenzene | • | (44-83) | (38~107) | • | • | • | [(-10)-41)] | ន | 7 | 7 |
| 4-Chloro-3-methyphenol | •• | (52-93) | (26–103) | • | 0 | ₹ | [(-12)-37)] | 22 | • | - |
| Acemphibere | ••• | (30-81) | (31-137) | • | • | • | (0-157) | 61 | 8 | 7 |
| 4-Nitrophenol | ** | (4-67) | (11-114) | 7 | | • | [(-2)-32)] | S | • | 0 |
| 2,4-Dinitrotoivene | • | (21-90) | (28-89) | 7 | - | • | (0-43) | 41 | • | 0 |
| Pentachlorophenol | • | (0-38) | (17–109) | ٠ | 8 | • | [(-34)-57)] | 4 | • | - |
| Pyrene | 40 | (42-121) | (35-142) | ٠ | ٥ | • | [(-2)-29)] | * | 4 | 0 |

MATRIX SPIKE ANDMATRIX SPIKE DUPLCATE ANALYSES PERFORMED ON SAMPLES; SBI –02–16, SBI –04–04, SBI –2–7, AND SBI A–2–1.

documents listed in Section F.1.3. The pesticide/PCB data validation worksheets are presented in Tables F-14.

Holding Times—Holding times were defined as the maximum amount of time allowed to elapse between the date and time of sample collection and the date and time of sample extraction and analysis. Extraction holding times were defined further as the maximum amount of time allowed to elapse between the date and time of sample collection and the date and time the sample is concentrated to the final injection volume, excluding any extract cleanup techniques.

The NET Laboratory was required by the SOW prepared for this SI to meet extraction holding times of 7 days for groundwater samples and 14 days for soil samples collected for organochlorine pesticide/PCB analysis. A maximum analysis holding time of 40 days was specified for water and soil extracts. Based on an evaluation of all environmental samples and field QC blanks extracted and analyzed for organochlorine pesticides/PCBs using EPA Method 8080, all holding time criteria were met, except SB-B-01 (3 days), SB-B-02 (3 days), SB2-01-01 (2 days), SB2-01-19 (2 days), SB2-02-01 (1 day), SB-03-01 (1 day), and SB2-04-01 (1 day). These holding times are considered to have no adverse impact on the associated environmental sample data quality; therefore, no data validation qualifiers have been applied.

Initial Calibration Results -- Initial calibration verification analyses conducted for soil and water samples were evaluated using 10 percent (i.e., aldrin, endrin, 4,4'-DDT, and dibutyl chlorendate [DBC]) control limits for RSD between standard areas. Two initial column (i.e., DB-5 and DB5-30W) Initial Calibration Verification (ICV) analyses were conducted for the soil and water samples collected at the Indiana ANGB. All RSD values were greater than 10 percent (i.e., aldrin, endrin, 4,4'-DDT, and DBC) in the initial calibration associated with soil and water samples. No data validation qualifiers were applied, since no organochloride pesticide/PCBs were detected in the associated samples. Organochlorine pesticides and PCBs were not detected in these samples, and as a result, the initial calibration results from the confirmation column (i.e., DB-1701) were not included in this review.

| | | | | Tabl | Table F-14a. Data Validation Tables: Pesticides/PCBs | Pesticides/PCBs | | | |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| SAIC Sample Number | Laboratory Identification Number | Date Collected | Date Extracted | Date Analyzed | Pesticide/PCBs Surrgate Recovery | TCMX Surrogate Control Limits | DBC Surrogate Control Limits | Method Blank Spile Analysis | Pesticide/PCBs MS/MSD Analyzes |
| WATERS MB180 FB-01 FB-02 | MB180 90021708 90021709 | NA 8/28/90 8/28/90 | 8/31/90 8/31/90 8/31/90 | 0/12/90 9/15/90 0/12/90 | ALL SURROGATES WITHIN CONTROL LIMITS EXCEPT [PB-02] DBC=120% (117%) | 56-96 56-96 59-113 | 29-117 29-117 29-117 | g-BHC %R=130; ALDRIN %R=0; ALL OTHERS WITHIN CONTROL LIMITS | FIELD OC NO MSMSD REQUIRED |
| WATERS MB187 EW-04 | MB187 90022314 | NA 8/30/90 | 06/90/6 06/90/6 | 06/21/6 | ALL SURROGATES WITHIN CONTROL LIMITS. | 35 - 35 36 - 36 | 29-117 29-117 | ALDRIN %R=0, ALL OTHERS WITHIN CONTROL LIMITS | PIELD QC NO MS/MSD REQUIRED |
| WATERS MB201A PB-03 | MB201A 90023606 | NA 9/11/90 | 9/17/90 9/17/90 | 06/62/6 06/62/6 | ALL SURROGATES WITHIN CONTROL LIMITS EXCEPT [MB2014] TCMX = 56% (59%). | 59-113 59-113 | 48 - 130 34 - 133 | 4,4'-DDT %R=220; ALL OTHERS WITHINCONTROL LIMITS | PIELD OC NO MSMSD REQUIRED |
| WATERS MB215 MW2-01 HT-01 MW2-01 MS | MB215 90024902 90025106 90024902 MS | NA 9/14/90 9/16/90 9/14/90 | 06/02/6 06/02/6 06/02/6 | 06/62/6 06/62/6 06/62/6 | ALL SURROGATES WITHIN CONTROL LIMITS BECEPT MEZIS TUMX=0% (9%) MW2-011 TUMX=3% (59%) MW2-011 TUMX=31% (59%) MW2-011 DEC=0% (48%) MW2-011 DEC=2% (48%) | 59-116 59-113 59-113 59-113 | 48 - 130 34 - 133 34 - 133 34 - 133 | • THERE WAS NO RECOVERY OF ANY OF THE SPIKE COMPOUNDS FOR MBS215 | 4.4' – DDT MS %R=5; ALL OTHER MS %R VALUES WITHIN CONTROL LIMITS; MSD DATA NOT PROVIDED; %RPD DATA NOT FROVIDED |
| SOILS MB178 SB-B-01 SB-B-02 SB2-01-01 SB2-01-19 SB2-02-01 SB2-03-01 SB2-03-01 SB2-03-01 SB2-03-01 | MB178 90021706 90021707 90021804 90022901 90022302 90022303 90022302 MSD | 8728/90 8728/90 8728/90 8728/90 8730/90 8730/90 8730/90 8730/90 | 06/179/9 06/179/9 06/179/9 06/179/9 06/179/9 06/179/9 06/179/9 06/179/9 06/179/9 06/179/9 | 9/15/90 9/15/90 9/15/90 9/15/90 9/17/90 9/17/90 9/17/90 | ALL SURROGATES WITHIN CONTROL LIMITS EXCEPT [MBIR] ICMX = 47% (51%) SB2-01-01 TCMX = 41% (51%) SB2-01-01 TCMX = 49% (51%) SB2-01-01 TCMX = 50% (51%) SB2-01-01 DBC = 191% (139%) MW2-01MS DBC = 20% (59%) SB2-01-19 DBC = 166% (139%) SB2-01-19 DBC = 166% (139%) | 51-119 51-119 51-119 51-119 51-119 51-119 51-119 | 43-117 43-117 50-139 50-139 50-139 50-139 50-139 50-139 | MBS178 WTHIN CONTROL LIMITS | ALL RECOVRRES WITHIN CONTROL LIMITS ALL DIFFERENCES WITHIN CONTROL LIMITS, EXCEPT DIELDRIN=40%. |

| SAIC Semple | Laboratory Identification | rcBs | Initial | Continuing |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Number WATTERS MB180 FB-01 FB-02 | Number MB180 90021708 90021709 | Analysis NO INTERFERENCE DETECTED | Calibration INST ID: HP5890 INTTAL COLUMN DB-5: RSDs>10% FOR ALDRIN ENDRIN 4,4"-DDT AND DBC. | Calibration INST ID: HP5890 INITAL COLUMN DB-5 Ds<15%. |
| WATERS MB187 EW – 04 | MB187 90022314 | NO INTERFERENCE DETECTED | INST ID: HP5890 INITIAL COLUMN DB-5; RSDs>10% FOR ALDRIN, ENDRIN 4,4"-DDT AND DBC. | INST ID: HP5890 INTIAL COLUMN DB-5 Ds<15%. |
| WATERS MB201A FB-03 | MB201A 90023606 | NO INTERPERENCE DETECTED | INST ID: HP5890 INITIAL COLUMN DBS-30W: RSDs>10% FOR ALDRIN ENDRIN 44"-DDT AND DBC. | INST ID: HP3990 INTIAL COLUMN DBS-30W Ds<15% EXCEPT 4,4' – DDT D=100%. |
| WATERS MB15 MW2-01 HT-01 MW2-01 MS | MB215 90024902 90024106 90024902 MS | NO INTERPERENCE DETECTED | INST ID: HP5800 INTTAL COLUMN DBS-30W: RSDs>10% FOR ALDRIN ENDRIN 4.4"-DDT AND DBC. | INST ID: HP5990 INTIAL COLUMN DBS-30W Ds<15% EXCEPT 44"- DDT D=100%. |
| SOILS MB178 SB-B-01 SB-01-01 SB2-01-19 SB2-02-01 SB2-03-01 SB2-03-01 SB2-03-01 SB2-03-01 SB2-03-01 MS | MB178 90021706 90021707 90021804 90022301 90022302 90022302 MSD | NO INTERPERENCE DETECTED | INST ID: HP5890 INTTAL COLUMN DB-5: RSDs>10% FOR ALDRIN ENDRIN 4,4" – DDT AND DBC. | INST ID: HP8890 INTAL COLUMN DB-5 Da<15%. |

| | Table F-14a. Data Validation Tables: Pesticides/PCBs (Continued) | able F-14a. Di | ata Validation T | fables: Pesticides/P | CBs (Continued) |
|---------------------------|------------------------------------------------------------------|----------------------------|--------------------------------|----------------------------------|--------------------------------------------------------|
| SAIC Sample Number | Laboratory Identification Number | Field Blank Analysis | Equipment Blank Analysis | Significant Sample Results | Data Oualifiers |
| WATERS MB180 FB-01 | MB180 90021708 | Y Z | A K X | None Detected None Detected | None Applied |
| 20 44 44 | 60/17006 | V | Š | Noile Detected | |
| WATERS MB187 | MB187 | ¥: | ¥: | None Detected | |
| FW04 | 90022314 | ∢ Z | Ç Z | None Detected | None Applied |
| WATERS MB201A EB_03 | MB201A | ¥ ž | Y X | None Detected | None & soulist |
| 3 | | • | Į. | | |
| WATERS MB215 MW2-01 | MB215 | NA FR | NA PW | None Detected | All Commoninde percent 4 4'DDT-111/SSD \M 4'-DDT-BVMS\ |
| MW2-01 MW2-01 MS | 9025106 90025106 90024902 MS | NA NA FB-03 | NA EW O | None Detected Not Applicable | None Applied None Applied |
| | | | | | - |
| SOILS MB178 | MB178 | Y Y | NA AN | None Detected | |
| SB-8-01 | 90021706 | 139 CS | EW-OA | None Detected | None Applied |
| SR2-01-01 | 90021707 | FB-02 | | None Detected | None Applied All Compounds = LU(SSR) |
| SR2-01-19 | 90021806 | FB-02 | EW-04 | None Detected | All Compounds = UI(SSR) |
| SH2-02-01 | 10022301 | FB-02 | EW-OA | None Detected | None Applied |
| SH2-03-01 | 90022302 | FB -02 | EW LO | None Detected | None Applied All Communds=11(SSR) |
| SR2-03-01 MS | 90022302 MS | FB-02 | EW-04 | Not Applicable | None Applied |
| SB2-03-01 MSD | 90022302 MSD | FB-02 | EW-04 | Not Applicable | None Applied |

Footnotes to Table F-14a.

** - For this Method Blank Spike, the laboratory noted that the lack of any percent recovery (%R) was possibly due to improper spiking or failure to spike the sample.

(*) — The recovery for this compound was 0 and, therefore, resulted in a percent difference (%D) of 100%. This suggests that the compound was not added to the calibration standard.

NA - Not Applicable

Control limits for Soil Pesticide/PCB Method Blank Spike Analysis

Gamma-BHC (Lindane): 46-127

Heptachlor: 35-130

Aldrin: 34-132 Dieldrin: 31-134

Endrin: 42-139

4,4'-DDT: 23-134 Control limits for Water Pesticide/PCB Method Blank Spike Analysis

Gamma-BHC (Lindane): 25-121

Heptachlor: 25-127

Aldrin: 32–128 Dieldrin: 23–137

Dieldrin: 25–137 Endrin: 26–140

4,4'-DDT: 30-132

Control limits for Soil Pesticide/PCB MS/MSD Analysis

Gamma-BHC (Lindane): 46-127

Heptachlor: 35-130

Aldrin: 34-132 Dieldrin: 31-134

Dieldrin: 31–134 Endrin: 42–139 4,4'-DDT: 23-134

Control limits for Water Pesticide/PCB MS/MSD Analysis

Gamma-BHC (Lindane): 25-121

Heptachlor: 25-127 Aldrin: 32-128

Dieldrin: 23-137 Endrin: 26-140

4,4'-DDT: 30-132

Control limits for Initial and Continuing Calibration:

Initial: %RSD < 10% Continuing: %D < 15% Continuing Calibration Results -- CCV analyses conducted for soil and water samples were evaluated using a 15 percent control limit for percent difference between initial and continuing standard areas. Two initial column (i.e., DB-5 and DB5-30W) CCV analyses were conducted for the water and soil samples collected during the Indiana ANGB SI. All percent difference values were less than 15 percent in the continuing calibrations analysis, except for 4,4'-DDT (i.e., 100 percent) in the CCV analysis conducted on September 29, 1991. No organochloride pesticides/PCBs were detected in the associated water and soil samples, therefore the impact of this calibration result is minimal, and as a result, no data validation qualifiers were applied. Since organochloride pesticide/PCBs were not detected in the associated water and soil samples, the continuing calibration results from the confirmation column (i.e., DB-1701) were not included in this review.

Blank Spike Recoveries -- Dibutylchloroendate (DBC) and 2,4,5,6-tetrachloro-metaxylene (TCMX) were used as spiking compounds in the method blank spike for the pesticide/PCB analysis. One blank spike was conducted for each batch of samples analyzed for pesticides/PCBs. The recovery of each spike compound was evaluated according to the control limit used for surrogate recoveries. Based on an evaluation of all method blank spike analyses, the percent recoveries of all spike compounds were within acceptable limits, (59 to 139 and 50 to 150 percent, respectively) except TCMX in MB201A (i.e., 56 percent), MB215 (i.e., 0 percent), and MB178 (i.e., 47 percent). Data validation qualifiers were not applied, since the DBC recovery results were within the advisory limits.

Surrogate Recoveries -- DBC and TCMX were added to each sample collected during the Indiana ANGB SI and extracted and analyzed for pesticide/PCBs. All DBC and TCMX recoveries were within the advisory limits established by EPA Method 8080 in all samples, except MW2-01 (i.e., 24 and 38 percent respectively), SB2-01-01 (i.e., 191 and 41 percent, respectively), SB-01-19 (i.e., 166 and 49 percent, respectively), and SB2-04-01 (i.e., 167 and 50 percent, respectively). Based on an evaluation of the surrogate recoveries, all analytical results in SB2-01-01, SB2-01-19, and SB2-04-01 and all analytical results except 4,4'-DDT in MW2-01 were estimated (i.e., "UJ[SSR]") to indicate that the applicable surrogate recoveries were outside the applicable limits. Also, DBC recovery was greater than the upper control limit

in FB-02 (i.e., 120 percent). These data were not qualified, since the TCMX recovery was within the advisory limits. Tables F-15 and F-16 summarizes the surrogate recovery results for groundwater and soil samples.

Method Blank Results — One method blank analysis was conducted with each batch of environmental samples collected for pesticide/PCB analysis. Each method blank was evaluated for interferents that might potentially interfere with accurate quantitation of a target compound. Based on an evaluation of all method blanks analyzed for pesticides/PCBs using EPA Method 8080, no interferents were detected.

Matrix Spike/Matrix Spike Duplicate Results — MS/MSD analyses were conducted to assess the accuracy and precision of the laboratory and to evaluate the matrix effect of the sample upon the analytical methodology based upon the percent recovery of each compound. Accuracy was expressed as the percent recovery of the spike compounds. Precision was expressed as the RPD of the concentrations of the spike compounds in the MS/MSD samples. One MS/MSD analysis was required for each set of 20 samples of similar matrix, excluding dilutions and re-analyses conducted. One MS analysis was conducted using the groundwater sample (i.e., MW2-01) collected during the Indiana ANGB SI. All percent recoveries were within the control limits, except 4,4'-DDT (i.e., 5 percent). As a result, 4,4'-DDT in MW2-01 was rejected (i.e., "R[MS]") to indicate that the matrix spike recovery was less than 10 percent. One MS/MSD analysis was conducted using the soil sample (i.e., SB2-03-01). All recoveries values were within the control limits. All RPD values were within the appropriate control limits, except dieldrin (40 percent); however, the associated data were not qualified based on this RPD value. Tables F-17 and F-18 summarizes the MS/MSD recovery and differences results for groundwater and soil samples.

4,4'-DDT/Endrin Breakdown Results — Endrin (i.e., endrin ketone and endrin aldehyde) and 4,4'-DDT (i.e., 4,4'-DDD and 4,4'-DDE) breakdown is evaluated using one mid-level calibration standard to determine whether the endrin ketone, endrin aldehyde, 4,4'-DDD, or 4,4'-DDE detected in any sample is representative of the environmental condition at the Indiana ANGB or is the result of poor instrument performance (e.g., contaminated GC column or

TABLE F-15. PESTICIDE/PCB SURROGATE RECOVERY QC SUMMARY: GROUNDWATER INDIANA ANGB FORT WAYNE, INDIANA

| PARAMETER | TOTAL NUMBER ANALYSES* | PERCENT RECOVERY RANGES | PERCENT RECOVERY CONTROL LIMITS | NUMBER WITHIN CONTROL LIMITS | NUMBER OUTSIDE CONTROL LIMITS |
|----------------------|------------------------------|-------------------------------|---------------------------------------|------------------------------------|-------------------------------------|
| TETRACHLORO-M-XYLENE | 11 | (20-67) | (59–113) | 7 | 7 |
| DIBUTYLCHLORENDATE | 11 | (0-150) | (48-130) | 7 | 4 |

WATER SAMPLE, METHOD BLANK, FIELD BLANK, EQUIPMENT BLANK, AND MATRIX SPIKE.

TABLE F-16. PESTICIDE/PCB SURROGATE RECOVERY QC SUMMARY: SOIL/SEDIMENT INDIANA ANGB FORT WAYNE, INDIANA

| PARAMETER | TOTAL NUMBER ANALYSES* | PERCENT RECOVERY RANGES | PERCENT RECOVERY CONTROL LIMITS | NUMBER WITHIN CONTROL LIMITS | NUMBER OUTSIDE CONTROL LIMITS |
|----------------------|------------------------------|-------------------------------|---------------------------------------|------------------------------------|-------------------------------------|
| TETRACHLORO-M-XYLENE | 10 | (47–166) | (51–119) | 9 | 4 |
| DIBUTYLCHLORENDATE | 10 | (49–191) | (43–117) | 9 | 4 |

* SOIL SAMPLE, METHOD BLANK, MATRIX SPIKE, AND MATRIX SPIKE DUPLICATE.

TABLE F-17. PESTICIDE/PCB MS/MSD QC SUMMARY: GROUNDWATER INDIANA ANBG FORT WAYNE, INDIANA

| | | | | | | | | _ |
|-----------|--------------------------------------|----------|------------|------------------|-----------|-----------|-------------------------|---|
| | NUMBER OUTSIDE CONTROL LIMITS | | | | | | | |
| | NUMBER WITHIN CONTROL LIMITS | | | | | | | |
| PRECISION | RPD LIMITS | | | | | • | | |
| | RANGE | | | | | | | |
| | MSD TOTAL No. ANALYSES | NOT | PERFORMED | PERFORMED NOT | PERFORMED | PERFORMED | PERFORMED NOT PERFORMED | |
| | NUMBER OUTSIDE CONTROL LIMITS | 0 | 0 | 0 | 0 | ပ | 1 | |
| | NUMBER NUMBER OUTSIDE CONTROL LIMITS | 1 | 1 | | ** | - | 0 | |
| ACCURACY | %R CONTROL LIMITS | (25-121) | (25–127) | (32–128) | (23–137) | (26–140) | (30-132) | |
| | PERCENT RECOVERY RANGES | 30% | 33% | 33% | 34% | 34% | 2% | |
| | MS/MSD TOTAL No. ANALYSES | 1 | _ | , | | - | = | |
| | PARAMETER | LINDANE | HEPTACHLOR | ALDRIN | DIELDRIN | ENDRIN | 4,4' DDT | |

MATRIX SPIKE ON SAMPLES MW2-01.

TABLE F-18, PESTICIDE/PCB MS/MSD QC SUMMARY; SOIL/SEDIMENT INDIANA ANGB FORT WAYNE, INDIANA

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE PERFORMED ON SAMPLES SB2-03-01.

injection port). No breakdown calculations were conducted; however, neither 4,4'-DDT, endrin, or their breakdown products were detected. As a result, no data validation qualifiers were applied.

Significant Qualified Sample Results -- Data validation qualifiers (i.e., "UJ[SSR]") have been applied MW2-01, SB2-01-01, SB2-01-19, and SB2-04-01 to indicate that the surrogate recoveries were outside the control limits. Data validation qualifiers (i.e., "R[MS]") have been applied to 4,4'-DDT in MW2-01 to indicate that the matrix spike recovery was less than 10 percent.

F.3.2 Inorganic Analyses

Seventy eight soil samples, 4 sediment samples, 15 groundwater samples, and 15 field QC blanks (i.e., field blanks and equipment blanks) were collected during the Indiana ANGB SI were submitted to the NET Laboratory for priority pollutant metals, which included total lead only, analyses using EPA solid waste test methods. A data quality assessment is presented in the following subsections.

F.3.2.1 Priority Pollutant Metals, including Total Lead Only

Seventy eight soil samples, 4 sediment samples, 15 groundwater samples, and 15 field QC blanks (i.e., equipment blanks and field blanks) were collected and analyzed using the EPA document *Test Methods For Evaluating Solid Waste, Physical/Chemical Methods*, SW-846, Third Edition. Soil and groundwater samples collected for total lead (i.e., SW 3020/7421 and 3050/7421, respectively) analyses were analyzed using graphite furnace atomic absorption (GFAA). All environmental and field QC samples collected for antimony (SW 3005/7421), arsenic (SW 3050/7060), lead (SW 3050/7421 and 3020/7421), selenium (SW 3050/7740), and thallium (SW 3050/7841 and 3020/7841) were analyzed using GFAA. Environmental samples collected for mercury (SW 7470 and SW 7471) analyses were analyzed using cold vapor generation and the remainder of the metals were analyzed using Inductively Coupled Argon Plasma (ICAP) spectroscopy (SW 3005/6010 and 3050/6010). Data quality will be evaluated using the guidelines and control limits specified for holding times, initial and continuing calibration verification, method blanks, interference check sample analysis, spiked sample

analysis, duplicate sample analysis, laboratory check sample analysis, and CRDL verification. A presentation of the significant qualified sample results follows the laboratory QC results discussion. The data validation worksheets are presented in Table F-19.

Holding Times - Holding times were defined as the maximum amount of time allowed to elapse between the date and time of sample collection and the date and time the sample was analyzed. The NET Laboratory was required to meet analysis holding times (for both soil and water samples) of 28 days for mercury and 6 months for all other priority pollutant metals. Based on an evaluation of all environmental samples and QC blanks analyzed, all holding time criteria were met, except for mercury in MW4-02, which was analyzed 27 days beyond the applicable holding time for water samples. As a result mercury in MW4-02 was rejected to indicate the exceeded holding time (i.e., "R[HT]"). Mercury in six water samples (i.e., P-8, EB2-1, FB2-1, MW2-01, MW2-01R, and MW1-01) and six soil samples (i.e., SB1A-1-5, SB1A-1-5R, SB1-2-5R, SB1-2-5R, SB1A-3-4, and SB1A-3-4R) were analyzed more than 14 days beyond the applicable holding times. The mercury results in these samples were qualified to indicate the exceeded holding times (i.e., all undetected values were presented in the comprehensive data presentation tables as "UJ[HT]").

Initial Calibration Verification — Calibration of the ICAP was established and validated by injecting a blank and at least one standard to establish an analytical curve. Calibration of the GFAA was established and validated by injecting a blank and at least three standards (one of which must be at the CRDL) to establish the analytical curve. Four standards were analyzed to establish the mercury calibration curve for that analysis. Following the initial calibration, percent recovery values were evaluated to verify the validity of the calibration. Priority pollutant metals calibration criteria requirements included 80 to 120 percent for mercury and 90 to 110 percent for all other elements, as specified by the DOE/HWP-65/R1. Based on an evaluation of the initial calibrations conducted, all percent recovery values were within control limits.

| | | | | Table F-1 | 9a. Data Validation | Table F-19a, Data Validation Tables: Priority Polluant Metak | 9 | |
|-------------------------------------------|---------------------------------|----------------------------------|----------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| | Laboratory | | | CAL | CALIBRATION | | BLANKS | |
| SAIC Sample Number | Number | Collection Dates | Analysis Dates | Initial Calibration | Continuing Calibration | Lottis) Blank | Continuing Blank | Procedumi Blank |
| SB-8-02 | 90021707 | 08/28/90 | 09/17-11/03/90 | ALL INITIAL (4) | AND CONTINUING | 4 ICBs APPLY | 17 CCBs APPLY | I APPLICABLE PBW |
| SB1-01-11 | 90021702 | 08/27/12 | 09/17-11/03/90 | CONTROLLIME | CONTROL LIMITS FOR ALL | DETECTED IN ANY OF THE | DETECTED IN ANY OF THE | NO CONTAMINANTS WERE |
| SB1-01-12 | 10/17006 | 08/27/12 | 09/17-11/03/90 | MEIALS | | INITIAL PLANKS, EXCEPT Sb(-1.3B) | Sb(1.3B), As(2.8B), Cd(4B AND 5B) | DETECTED IN THE PBW BLANKS GREATER THE CRDL |
| SB1-02-03 | 10812006 | 08/29/90 | 09/17-11/03/90 | | | | N(14B AND 15B), Za(11B) | |
| SB1-02-03R | 90021802 | 08/23/90 | 09/17-11/03/90 | | | | | |
| SB1-02-16 | 90021803 | 08/23/90 | 09/17-11/03/90 | | | | | |
| SB1-03-02 | 90021703 | 08/28/90 | 09/17-11/03/90 | | | | | |
| SB1-03-05 | 90021704 | 08/28/90 | 09/17-11/03/90 | | | | | |
| SB1-03-18 | 90021705 | 08/28/90 | 09/17-11/03/90 | | | | | |
| SB2-01-01 | 90021804 | 08/29/90 | 09/17-11/03/90 | | | | | |
| SB2-01-19 | 90021806 | 06/67/80 | 09/17-11/03/90 | | | | | |
| SB2-02-01 | 90022301 | 08/30/90 | 09/17-11/03/90 | | | | | |
| SB2-03-01 9 | 90022302 | 08/30/90 | 09/17-11/03/90 | | | | | *************************************** |
| SB2-04-01 5 | 90022303 | 08/30/90 | 09/17-11/03/90 | | | | | V V V V V V V V V V V V V V V V V V V |
| SB4-01-01 | 90022304 | 08/30/90 | 09/17-11/03/90 | | | | | |
| SB40102 | 90022305 | 08/30/80 | 09/17-11/03/90 | | | | | |
| SB4-01-02D S SB4-01-02S 9 SB4-02-01 | 9002305D 9002305S 9002306 | 08/34/90 08/34/90 08/34/90 | 09/17-11/03/90 09/17-11/03/90 09/17-11/03/90 | | | | | |
| SB4-02-02 | 90022307 | 08/30/90 | 09/17-11/03/90 | | | | | |
| SB4-03-01 9 | 90022308 | 08/30/80 | 09/17-11/03/90 | | | | | |
| SB4-03-02 | 90022309 | 08/30/80 | 09/17-11/03/90 | | | | | |
| SB-B-01 9 | 90021706 | 08/28/90 | 11/12-11/13/90 | DITIAL(1) AND CALIBRATION (CONTROL LIMIT | INITIAL(1) AND CONTINUING CALIBRATION (5) WITHIN %R CONTROL LIMITS FOR ALL METALS. | I ICB APPLES NO CONTAMINANTS WERE DETECTED IN ANY OF THE INITIAL BLANKS, EXCEPT C4(3B) | SCCBA APPLY NO CONTAMINANTS WERE DETECTED IN ANY OF THE CONTINUING BLANKS EXCEPT Cd(3B) AND N(~ 13B). (~ 18B) | I APPLICABLE PBW NO CONTAMINANTS WERE DETECTED IN THE PBW BLANKS OREATER THE CRDL |

| | | Table F | -19a. Data Validation | Table F-19a. Data Validation Tables: Priority Polluant Metals (Continued) | etals (Continued) | |
|---------------------------------------|------------------------------------|--------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------|---------------------|--------------------------------------------------------|
| | Laboratory | i)i | ICP/ICS | ACCURACY | PRECISION | Laboratory |
| SAIC Sample Number | ID Number | Initial | Final | Spile Sample | Duplicate Sample | Control Sample |
| SOIL:BATCH SB-B-02 | 1 90021707 | ALL INTITAL ICP/ICS | ALL FINAL ICP/ICS | SB4-01-02 | SB4-01-02 | ALL PERCENT RECOVERIES |
| SB1-01-11 | 90021702 | WITHINCONIKOL LIMITS (80–120%) | WITHINCONIKOL LIMITS (80–120%) | ALL PERCENT RECOVERY VALUES MITHINI PARTS | RPDs WERE LESS THAN | WITHIN CONTROL LIMITS (80-120%) |
| SB1-01-12 | 90021701 | | | (75–125%), EXCEPT | 3378. | |
| SB1-02-03 | 90021801 | | | 30(U) AND AS(131) | | |
| SB1-02-03R | 90021802 | | | | | |
| SB1-02-16 | 90021803 | | | | | |
| SB1-03-02 | 90021703 | | | | | |
| SB1-03-05 | 90021704 | | | | | |
| SB1-03-18 | 90021705 | | | | | |
| SB2-01-01 | 90021804 | | | | | |
| SB2-01-19 | 90021806 | | | | | |
| SB2-02-01 | 90022301 | | | | | |
| SB2-03-01 | 90022302 | | | | | |
| SB2-04-01 | 90022303 | | | | | |
| SB4-01-01 | 90022304 | | | | | |
| SB4-01-02 | 90022303 | | | | | |
| SB4-01-02D SB4-01-02S SB4-02-01 | 90022305D 90022305S 90022306 | | | | | |
| SB4-02-02 | 90022307 | | | | | |
| SB4-03-01 | 90022308 | | | | | |
| SB4-03-02 | 90022309 | | | | | |
| SB-B-01 | 90021706 | INTIAL ICPICS %R WITHIN CONTROL LIMITS (80-120%) | FINAL ICP/ICS , %R WITHIN CONTROL LIMITS (80-120%) | , | | ALL PERCENT RECOVERIES WITHIN CONTROL LIMITS (80-120%) |
| | | | | | | |

| | | | | Table F-19a | . Data Validati | be F-19a. Data Validation Tables: Priority Polluant Metals (Continued) | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------|---------------------------------|--------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Width Widt | SAIC Sample Number | | Standard Addition Results | Field Hank Results | Equipment Hank Results | Significant Sample Results | Data Qualifers |
| Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack Pack | SOIL:BATCH SB-B-02 | | NA | FB-01, -02 | EW-01 | Be(2.5), Cd(0.49B), Cr(34), Cu(29.3), | Cd=0.494(MB,B)/Zn=71.93(FB) |
| 90021201 PB—01, —02 EW—01 Be(1/3, Ce(1/3, Ce(1/4, c), Pe(1/2, r)) 90021201 PB—01, —02 EW—02 BP(1/3, Ce(1/3, Ce(1/3, Pe(1/2, r))) 90021202 PB—01, —02 EW—03 PE(1/3, Ce(1/3, Pe(1/2, r))) 90021203 PB—01, —02 EW—03 PE(1/3, Ce(1/3, Pe(1/3, r))) 90021203 PB—01, —02 EW—03 PE(1/3, Ce(1/3, Pe(1/3, r))) 90021203 PB—01, —02 EW—01 PB(1/3, Ce(1/3, Pe(1/3, r))) 90021203 PB—01, —02 EW—01 PB(1/3, Ce(1/3, Pe(1/3, r))) PE(1/3, Ce(1/3, Pe(1/3, r))) 90021203 PB—01, —02 EW—01 PB(1/3, Ce(1/3, Pe(1/3, r))) PE(1/3, Ce(1/3, Pe(1/3, r))) 90021204 PB—01, —02 EW—01 PB(1/3, Ce(1/3, Pe(1/3, r))) PE(1/3, Ce(1/3, r)) 90021205 PB—01, —02 EW—01 PB(1/3, Ce(1/3, r)) PE(1/3, Ce(1/3, r)) 90021206 PB—01, —02 EW—01 PB(1/3, Ce(1/3, r)) PE(1/3, r) 90021207 PB—01, —02 EW—03 PB(1/3, Ce(1/3, r)) PE(1/3, r) 90021207 PB—01, —02 EW—03 PE(1/3, r) <th< td=""><td>SB1-01-11</td><td>90021702</td><td></td><td>FB-01, -02</td><td>EW-01</td><td>Tal, (20.2), £24(11.3) Bel (1.3), Cd(0.212), Cf(11.1), Cu(29.2), Bel (1.3), Cd(0.212), Cf(11.3), Cu(29.2),</td><td>Cd=0221(MB,B)Ni=16.91(MB)/Zn=29.61(FB)</td></th<> | SB1-01-11 | 90021702 | | FB-01, -02 | EW-01 | Tal, (20.2), £24(11.3) Bel (1.3), Cd(0.212), Cf(11.1), Cu(29.2), Bel (1.3), Cd(0.212), Cf(11.3), Cu(29.2), | Cd=0221(MB,B)Ni=16.91(MB)/Zn=29.61(FB) |
| Part of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control | SBI-01-12 | 10212006 | | PB-01, -02 | EW-01 | Be(0.14), Cf.(7.9), Cu(24.6), Pb(7.0°), | Nane Applied |
| Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part Part | SB1-02-03 | 90021601 | | FB-01, -02 | EW-03 | 14(1.1), 24(1.1), 14(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(1.1), 15(| Cd=0241(MB,B)/Za=62.31(FB) |
| PB-01, -02 EW-03 PB-01, -02 EW-03 PG/03/10, Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), Cr(13), | SB1-02-03R | | | FB-01, -02 | EW-03 | FOLTS, FINE CO. (21), FM(15.8°), NATION 12, NATION 12, NATION 12, NATION 12, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, NATION 13, | Zn=49.21(FB) |
| PB-01, -02 EW - 01 PG-02, -03 PG-01, -04 PG-01, -04 PG-01, -04 PG-01, -04 PG-01, -04 PG-01, -04 PG-01, -04 PG-01, -05 PG-02, -04 PG-01, -04 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, -05 PG-01, | SB1-02-16 | 90021603 | | PB-01, -02 | EW-03 | Fulcos), Cul (37.2) Be(0.93), Cul (37.2), Cul (27.1), Pb(17.9°), Bullon (27.4.4.2), Cul (27.1), Pb(17.9°), | Zn=42.3/(FB) |
| 90021704 PEO-IL, -02 EW-OI Re(17), Cd(OAPB), Cr(20.0, Cu(21.8), Pe(10*) 90021705 PEO-IL, -02 EW-OI Re(17), Cd(OAPB), Cr(20.0, Cu(21.8), Pe(10*) 90021705 PEO-IL, -02 EW-OI Re(17), Cd(OAPB), Cr(20.0, Cu(21.8), Pe(12.4) 90021806 PEO-IL, -02 EW-OI PEO-IL, -02 EW-OI PEO-IL, -02 PEW-OI PEO-IL, -02 PEW-OI PEG-IL, -02 PEW-OI PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEG-IL, -03 PEW-OI, -03 PEG-IL, -03 PEW-OI, -03 PEG-IL, -03 PEW-OI, -03 PEG-IL, -03 PEW-OI, -03 PEW-OI, -03 PEW-OI, -03 PEW-OI, -03 PEW-OI, -03 PEW-OI, | SB1-03-02 | 90021703 | | FB-01, -02 | EW-01 | Pa(2.1.), 24(4.1.) Pa(2.0), Cd(0.60), Cr(27), Cu(19.3), Pb(13.7°), Nr/20, 27, 27, 646 | Cd=0.6J(MB,B)/Zn=66J(FB) |
| PB-01, -02 PW-03 PB-01, -02 PW-04 PQ(034), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(031B), Cq(| SB1-03-05 | 90021704 | | FB-01, -02 | EW-01 | Be(1.7), Cd(0.54B), Cr(20.6), Cu(27.8), Pb(10*), | Cd=0.34J(MB,B)/Zn=54.4J(FB) |
| PB-01, -02 EW-03 Statistical California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California California Californi | SB1-03-18 | 90021705 | | PB-01, -02 | EW-01 | N(20.1), CB(2**) 80(0.94), CB(0.21B), Cr(9.6), Cb(34.7), Pb(7.5°), 84(7.1) | Cd=0.211(MB,B)/Zn=33.21(FB) |
| Tilozouovi | SB2-01-01 | 90021804 | | FB-01,02 | EW-03 | SPO.10UWN), AMI 3N), Cr(2.0), Cu(19.3), Po(6.2°), Hg(0.32), Ni(1.78), 8a(0.2UW), | Sb=0.1R(N)/As=1.31(N,MByPb=6.21(EB)N1=1.71(MR,B)/ Zn=6.91(FB) |
| 90022301 90022302 90022302 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 90022303 900 | SB2-01-19 | 900213006 | | ä | EW-03 | Ti(0.200W), Za(3.3.2) Sb(0.100WN), Aa(14.3N), Be(0.73), Cd(0.31B), Cr(6.6), Cu(2.71), Pb(7.8°), Ni(13.6), Cr(6.71), Tr(7.8°), Tr(7.8°), Tr(7.8°), | Sb=0.1R(N)/As=14.31(N)/Cd=0.311(MB,B)/Pb=7.63(EB)/ Ni=15.64(AB)/Ti=0.31(B) |
| 90022002 90022003 90022003 90022003 90022003 90022003 90022003 90022003 90022004 90022004 90022004 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022005 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 900 | SB2-02-01 | 90022301 | | FB-01, -02 | EW-03,-05 | SQUALOW), 11(0.5B), ZA(2A), SQUALOWN), AA(1.7N), C7(2B), CU(17.4), BA(2.7), MIT KB), SA/O 211 MIX 7=(4 K) | Sb=0.11R(N)As=1.73(N,MB)Pb=3.73(EB)/ |
| NG 12 13 14 15 15 15 15 15 15 15 | SB2-03-01 | 90022302 | | Ę, | EW-03,-05 | SP(0.11UWN), A4/20.7N), Be(0.96), Cd(0.65), Cr(11.7), Cu(26.5), Pe(16.3*), Hg(0.03), | Sb=0.11 R(N)/As=20.71(N)/Cb=0.651(MB)/T1=0.371(B)/Zn=66.91(PB) |
| 90022004 90022004 90022005 90022005 90022005 90022005 90022005 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 90022006 900 | SB2-04-01 | 90022303 | | FB-01, -02 | EW-03,-05 | N(195), Se(021UW), T(037BW), Za(66.9) SP(0.11UWN), Ac(11.5N), Be(0.91), Cd(0.23), Cr(10), Cu(3.11), Pe(15.6*), Ne(18.7), Se(0.71TM), Tr(0.6PM), Tr(15.7), | Sb=0.11R(N)/As=11.5/(N)/Cd=0.231(MB,B)/T1=0.563(B)/ Zn=64.51(FB) |
| 9002203 FB-01, -02 EW-03, -03 SP(0.11UVNY), Ad(11.1N), Be(2.1), C(22.6), C(22.6), FP(9.4°), Hg(0.03), N(21.3), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), S(0.23.0), | SB4-01-01 | 90022304 | | FB-01, -02 | EW-03,-05 | 340.250 W, 110.352W, 2410.25 Sk0.12UWN, A46.4N, B6(1.2), Cd(0.36), Cf(7.7), Cu(3.8), Pe(14.1°), Hg(0.4), Ng(1.3), C ₁ 0.050M, TriA, App. 2, 2, 2, | Sb=0.12R(N)/As=8.4J(N)/Cd=0.36J(MB,B)/Ni=11.2J(MB)/ Se=0.39J(B)/T1=0.49J(B)/Zn=22J(FB) |
| 90022035 90022036 90022036 90022036 90022036 90022036 90022036 90022036 90022037 90022037 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90020303 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 90022039 9002039 | SB4-01-02 | 90022303 | | Ę, | EW-03,-05 | Sq(1111), Sq(3-3914), sq(213), Sq(31110WN), Aq(11.1N), Be(21), G(206), Cu(226), Pg(226), Hg(303), Ng(213), Se(1318WN), Tr(0.478), Ze(64, 7) | Sb=0.11R(N)/As=11.14(N)/Se=0.33J(B)/T1=0.47J(B)/ Zn=66.7J(PB) |
| 90022006 FB-01, -02 EW-03,-05 Sh(0.12UWN), Aq(10.9N), Be(1.7), Cd(0.56B), Cd(1.17), Hig(0.09), M(1.24), Sq(0.24BW), Ti(0.24B), Zd(6.00) FB-01, -02 EW-03,-05 Sh(0.12UWN), Aq(9.6N), Be(1.9), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B), Cd(0.24B) | SP4-01-02D SP4-01-028 | | | FB-01, -02 FB-01, -02 | EW-03,-05 EW-03,-05 | NA NA NA | None Applied None Applied |
| 90022307 PB-01, -02 EW-03,-05 SQL012UWN), AQSAN, BQL03, CQC24B), CQC22307 PB-01, -02 EW-03,-05 SQC012UWN), AQSAN, BQL03, PGC024B), CQC22308 PB-01, -02 EW-03,-05 SQC021UWN), AQSAN, PGC034B, CQC233, CQC23UW, ZQC6AB), PB-01, -02 EW-03,-05 SQC012UWN), AQC0AB, CQC233, CQC0AB, CQC233, CQC230, PGC0AB, CQC230, PGC0AB, CQC230, PGC0AB, CQC230, PGC0AB, CQC230, PGC0AB, CQC230, PGC0AB, CQC230, PGC0AB, CQC230, PGC0AB, CQC230, PGC0AB, CQC230, PGC0AB, CQC230, PGC0AB, CQC0AB, CQC230, PGC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB, CQC0AB | SB4-02-01 | | | FB-01, -02 | EW-03,-05 | Sb(0.12UWN), Ag(10.9N), Be(1.7), Cd(0.36B), Cr(21.6), Cu(28.8), Pb(11.7°), Hg(0.09), | Sb=0.11R(N)/As=10.93(N)/Cd=0.563(MB,B)/T1=0.263(By/ Zn=663(FB) |
| 90022306 | SB4-02-02 | 90022307 | | FB-01, -02 | EW-03,-05 | THE LABOUT INCLUSION OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE COLUMN OF THE CO | Sb=0.12R(N)/As=9.6J(N)/Cd=0.24J(MB,B)/Zs=66.6J(FB) |
| 90022309 FB-01, -02 EW-03,-03 SP(0.12UWP), Ad (1.4M), Be(1.9), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), Cr(28), | 3B4-03-01 | 90022308 | | FB-01, -02 | EW-03,-05 | m(322), squ.23UW, zd(vz.) 60(311UWN), zd(9.7N) Be(1.9), Cd(0.45B), Cr(25.3), Cu(16.7), 8bc(14.4), zd(0.7), zd(24.0), cz(0.45B), Cr(25.3), Cu(16.7), | 8b=0.11R(N)/As=9.71(N)/Cd=0.451(MB,B)/Se=0.363(B)/ 7s=771/FBN |
| 90021706 NA FB-01, -02 EW-01 Be(1.0), Cd(0.34B), Cr(15.5), Cu(13), NI(11), Za(41.9) | SB4-03-02 | 90022309 | | PB-01, -02 | EW-03,-05 | TO (2012) WHIN A (11.4N), Be(1.9), CT (28.), Be(1.4.4), Be(1.9), CT (28.), Be(1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4 | Sb=0.12R(N)/As=11.4J(N)/T1=0.38J(B)/Zn=87J(FB) |
| | SB-B-01 | 90021706 | NA | FB-01, -02 | EW-01 | Be(1.0), Cd(034B), Cr(15.5), Cu(13), N(11), Zn(41.9) | Cd=0.34J(MB,B)/Cu=13J(FB)/NI=11J(MB)/Zn=41.9J(FB) |

| | | | | Table F-15 | b. Data Validation | Table F-19b. Data Validation Labes: Priority Polluant Metab | | |
|------------------------------------|------------------------------------|--------------------------------|----------------------------------------------------|------------------------|---------------------------|-------------------------------------------------------------|---------------------------------------|-------------------------|
| | | | | CALL | CALIBRATION | | BLANKS | |
| SAIC Sample Number | Laboratory ED Number | Collection Dates | Analysis Dates | Initial Calibration | Coatinuing Calibration | Initial Binak | Continuing Blank | Procedural Blank |
| SOIL:BATCH 2 SB1-04-01 | | 06/90/60 | 09/25-11/03/90 | ALL INITIAL (4) | AND CONTINUING | 4 ICBs APPLY | 15 CCBs APPLY | 1 APPLICABLE PBW |
| SB1-04-02 | 20957006 | 06/90/60 | 09/25-11/03/90 | CONTROLLIMIT | CONTROL LIMITS FOR ALL | NO CONTAMINANTS WERE | AND NK(48, 15B) NO CONTAMINANTS WIRBE | NO CONTAMINANTS WERE |
| SB1-04-03 | 80952006 | 06/90/60 | 09/25-11/03/90 | | | BLANKS GREATER THE CRDL | DETECTED IN THE CONTINUING | BLANKS OREATER THE CRDL |
| SB1-04-04 | 90023604 | 06/90/60 | 09/25-11/03/90 | | | | GREATER THAN THE CRDL. | |
| SB4-04-01 | 90022310 | 06/30/30 | 09/25-11/03/90 | | | | | |
| SB4-04-02 | 90022311 | 08/30/90 | 09/25-11/03/90 | | | | | |
| SB4-05-01 | 90022312 | 06/30/30 | 09/25-11/03/90 | | | | | |
| SB4-05-02 | 90022313 | 08/30/90 | 09/25-11/03/90 | | | | | |
| SB4-05-02D SB4-05-02S SD4-01 | 90022313D 90022313S 90022402 | 08/3090 08/3090 08/31/90 | 09/25-11/03/90 09/25-11/03/90 09/25-11/03/90 | | | | | |
| SD4-02 | 90022403 | 06/11/90 | 09/25-11/03/90 | | | | | |
| _ | | | | | | | | |

| | | Table F | -19b, Data Validation | Table F-19b. Data Validation Tables: Priority Polluant Metals (Continued) | tals (Continued) | |
|------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------------------------------------------|---------------------------------------|------------------------------------|
| 1 | Laboratory | DI ICI | ІСРИСЅ | ACCURACY | PRECISION | Laboratory |
| SAIC Sample Number | ID Number | Initial | Final | Spike Sample | Duplicate Sample | Control |
| SOIL:BATCH 2 SB1-04-01 | 2 90023601 | ALL INITIAL ICP/ICS | ALL FINAL ICP/ICS | SB4-05-02 | SB4-05-02 | ALL PERCENT RECOVERIES |
| SB1-04-02 | 90023602 | %K WITHIN COLKOL LIMITS (80–120%) | %K WITHIN COTROL LIMITS (80-120%) | FERCENT RECOVERY FOR ALL SPIKED | ALL RPDs WITHIN CONTROL LIMITS (35%). | WITHIN CONTROL LIMITS (80-120%) |
| SB1-04-03 | 90023603 | | | LIMITS (75–125%), EXCEPT | | |
| SB1-04-04 | 90023604 | | | 50(U) AND AS(103.4) | | |
| SB4-04-01 | 90022310 | | | | | |
| SB4-04-02 | 90022311 | | | | | |
| SB4-05-01 | 90022312 | | | | | |
| SB4-05-02 | 90022313 | | | | | |
| SB4-05-02D SB4-05-02S SD4-01 | 90022313D 90022313S 90022402 | | | | | |
| SD4-02 | 90022403 | | | | | |
| | | | • | | | |

| | | | Table F-19b. | Data Validati | able F-19b. Data Validation Tables: Priority Polluant Metals (Continued) | |
|----------------------------|----------------------------|---------------------------------|--------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| SAIC Sample Number | Laboratory ID Number | Standard Addition Results | Field Hank Results | Equipment Blank Results | Significant Sample Results | Den Qualifors |
| SOIL:BATCH 2 SB1 -04-01 | 90023601 | | PB-03 | EW-05 | Be(1.7), Cd(0.66), Cr(19.4), Cu(24.8), Pb(23), | Cd=0.660(MB) |
| SB1-04-02 | 90023602 | | PB-03 | EW-05 | M(24.5), CM(04.5) M(1.3), Cd(0.4), CT(16.6), Cu(29.2), PO(12.2), M(27.2), Z(16.6) | Cd=0.491(MB) |
| SB1-04-03 | 90023603 | | FB-03 | EW-05 | re(1.1), Cd(0.79), Cr(20.5), Cu(30.3), Pb(15.5), | Cd=0.79J(MB) |
| SB1-04-04 | 90023604 | | FB-03 | EW-05 | Nd (27.1), LM (20.4) Bell 16), Cald 27B), Cr(19.5), Cu(34.2), Pb(13.9), M/(41.4), 7=(4.7.7) | Cd=0.371(MB,B) |
| SB4-04-01 | 90022310 | | 20− °10−0, | EW-03,-05 | Sp(0.10WN), Aw(10.8N) Be(1.1), Cd(0.21 B), Cr(13.1), Cw(16.9), Pd(25.6), Hg(0.02), Sr(14.5), Cw(16.9), Pd(17.6), Hg(0.02), | Sb=0.1R(NYAs=10&KNYCd=0.21.1{MB_B}/Ni=14.51{MB} Se=0454{B}/Zn=51.21{FB} |
| SB4-04-02 | 90022311 | | FB-01,-02 | EW-03,-05 | N(15.2), Squarab, 11(0.2004), 24(31.2) Sb(0.1UWN), Aq6.2N), Bq(1.4), Cd(0.49), Cr(16.9), Cu(3.1), Fu(10.4), N(191.5), Cr(16.9), Cu(3.1), Fu(10.4), Z-2.45 | Sb=0.1R(N)/As=8.2K/N)/Cd=0.491(MB)/So=0.521(B)/ Zn=66.71(FB) |
| SB4-05-01 | 90022312 | Se: r=1.000, FINAL CONC.=4.1 | FB-01,-02 | EW-03,-05 | Se(0.5287), 140.2307, 2.4(6.7.) Se(0.610WN), Ad(2.8N), Be(0.258), Cr(5.4), Cu(16.1), Pr(11), Hg(0.03), Ni(9.2), | \$b=0.06R(nya=1.54(nyb=0.151(b)n=9.11(aby \$e=0.36I(b)Za=11.6I(FB) |
| SB4-05-02 | 90022313 | | FB-01,-02 | EW-03,-05 | Se(0.30BW), 11(0.300W), 24(13.5) Se(0.30BWN), Ad.7.0N; Be(1.6), Cd(0.28B), Cr(21.2), Cd(27.4), PR(10.5), Ni(28.6), Se(0.73BW), Ze(18.5) | \$b=0.09R(N)/Ab=71(N)/Cd=0.281(MB,B)/Zb=55.33(FB) |
| SB4-05-02D | | | FB-01,-02 | EW-03,-05 | NA NA NA | None Applied |
| SD4-01 | 90022402 | | FB-01,-02 | EW-05 | Sb(0.11UWN), Ad(11.0N), Be(1.7), Cd(0.22B), Cr(20.9), Cx(3.1.1), Pb(13.8), Ni(33.7), | Sb=0.1 R(N)Ap=113(N)Od=0.223(AB.B)/71=0.273(B)/ Zn=73.94(FB) |
| SD4-02 | 90022403 | | FB-01,-02 | EW-05 | 80(220W), M(0.218, M(13.8), Sh(0.12WW), Anfolk), Be(2.0), Cd(0.35B), Cd(19.3), Co(28.1), Pb(20.4, Hg(0.04), N(28.1), Tl(0.30B), Zn(71.3) | \$b=0.12R(N)/As=9.63(N)/Cd=0.553(MB,B)/Tl=0.504(B)/ Zn=71.53(FB) |

| SAIC Sample Laboratory Collection Annabor Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Dates Date | | CALIBR | CALIBRATION | | BLANKS | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------|---------------------------|-------------------------|--------------------------------------------------|-------------------------------------|
| 10 90021710 06/24/90 -16 9002166 06/24/90 -16 90022401 06/24/90 -17 90024901 06/24/90 -18 90025104 06/24/90 -19 90025104 06/24/90 -10 90025105 06/14/90 -10 90025105 06/14/90 -10 90025101 06/14/90 -10 90025101 06/14/90 -10 90025101 06/14/90 -10 90025101 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 -10 90024/902 06/14/90 | Analysis Dates | Initial Calibration | Continuing Calibration | Initial | Continuing Blank | Procedural Blank |
| 9002390 9002490 9002490 9002490 900240 9002170 9002170 9002366 9002366 9002366 9002366 9002366 9002366 9002360 9002490 9002490 9002490 9002490 9002490 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 900230 90020 | 100500 | ALL INPERIOR AND AND AND AND AND AND AND AND AND AND | CONTRACTO | A PORT A DESCRIPTION | A COCH. And Vol. 100 | A Ment of the state of the state of |
| 90022401 90024901 90024901 9002406 9002366 9002366 90025100 90025100 90024902 90024902 90024901 90024901 900239018 | 00/20-10/2990 | CAT TREATIONS (15) WITHIN SEP | NUTTHIN 6.P | • ICDS AFFLI. | 10 CCD4 AFFLT 30(=1.3b) | I AFFLICABLE FBW |
| 9002/5104 9002/5104 9002/1708 9002/306 9002/306 9002/5107 9002/5107 9002/5107 9002/5107 9002/907 9002/907 9002/901 9002/901 9002/901 9002/901 | 09/26-10/25/90 | CONTROL LIMITS FOR ALL METALS | OR ALL METALS | NO CONTAMINANTS WERE | AND NK-14R 16R 18B | NO CONTAMINANTS WERE |
| 90025104 90021708 90021709 90025105 90025102 90025101 900251015 900251015 900251015 90025010 90025010 90023901 | 09/26-10/25/90 | | | DETECTED IN THE INITIAL | NO CONTAMINANTS WERE | DETECTED IN THE PBW |
| 90021708 90021709 90025106 90025102 90025101 900251015 900251018 900251018 90025010 90025010 90023901 | 09/26-10/25/90 | | | BLANKS GREATER THE CRDL | DETECTED IN THE CONTINUING | BLANKS GREATER THE CRDL |
| 80021709 90025106 90025102 90025102 90025102 90025102 90025009 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 90025103 900251 | 09/26-10/25/90 | | | | CALIBRATION BLANKS | |
| 90023666 90025106 90025107 90025101 90025101 90024902 90024902 90024902 90024901 90023105 90023105 90023105 | 09/26-10/25/90 | | | | GREATER THAN THE CRDL. | |
| 90025102 90025101 90025101 90025101 90025101 90025101 90025101 90025101 90025101 90025101 90025101 90025101 90023101 | 09/26-10/25/90 | | | | | |
| 20152009 20152009 20152009 20152009 20152009 20152009 20152009 20152009 20152009 20152009 20152009 20152009 20152009 20152009 | 09/26-10/25/90 | | | | | |
| 2015/2006 2016/2006 2016/2006 2016/2006 2016/2006 2016/2006 2016/2006 2016/2006 2016/2006 2016/2006 2016/2006 2016/2006 2016/2006 2016/2006 2016/2006 2016/2006 2016/2006 | 09/26-10/25/90 | | | | | |
| 200251010 200251018 20025009 20025009 20025009 20025009 20025009 20025009 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 20025109 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 2002510 20025 | 000001100000 | | | | | |
| 3106£2006 3106£2006 306£2006 306£2006 306£2006 306£2006 306£2006 306£2006 306£2006 | 09/26-10/25/90 | | | | | |
| 90024902 90024902 90024901 90025105 900239018 | 09/26-10/25/90 | | | | | |
| 90024902D 90024902 90024801 90023901 90023901D | 09/26-10/25/90 | | | | | |
| 90024801 90024801 90023901 900239018 | 09/26-10/25/90 | | | | | |
| 90025105 90023901 90023901 90023901D | 09/26-10/25/90 | | | | | |
| 90025105 90023901 900239015 | 09/26-10/25/90 | | | | | |
| 90023901 90023901S 90023901D | 09/26-10/25/90 | | | | | |
| 90023901S | 11/06-11/14/90 | INITIAL(2) AND CONTINUING (10) | NTINUING (10) | 2 ICBs APPLY. | 10 CCBs APILY | 1 APPLICABLE PBW |
| 90023901D | 11/06-11/14/90 | CALIBRATIONS WITHIN %R | THIN S.R | Cd(3B) | As(-2.5B, -2.8B), Cd(3B), NI(-15B) | As(-3.4B), Cd(3B), Zn(9B) |
| | 11/06-11/14/90 | CONTROL LIMITS FOR ALL METALS | OR ALL METALS | NO CONTAMINANTS WERE | NO CONTAMINANTS WERE DETECTED IN THE CONTINE TWO | NO CONTAMINANTS WERE |
| | | | | BLANKS GREATER THE CRDL | CALIBRATION BLANKS | BLANKS GREATER THE CRDL |
| | | | | | GREATER THAN THE CRDL. | |

| | | Table F | -19c. Data Validation 7 | Table F-19c. Data Validation Tables: Priority Polluant Metals (Continued) | stals (Continued) | |
|--------------|------------|---------------------|-------------------------|---------------------------------------------------------------------------|------------------------------|------------------------|
| | Laboratory | 2 | 30/d01 | ACCURACY | PRECISION | |
| SAIC Sample | 10 | | | Spike | Duplicate | Control |
| Number | Number | Initial | Final | Sample | Sample | Sample |
| WATER | | | | | | |
| EW-01 | 90021710 | ALL INITIAL ICP/ICS | ALL FINAL ICP/ICS | MW1-02 | MW1-02 | ALL PERCENT RECOVERIES |
| EW-03 | 90021808 | %R WITHIN COTROL | %R WITHIN COTROL | PERCENT RECOVERY | ALL RPDs WITHIN | WITHIN CONTROL LIMITS |
| EW-05 | 90022401 | LIMITS (80-120%) | LIMITS (80-120%) | FOR ALL SPIKED | CONTROL LIMITS (20%). | (80-120%) |
| EW-07 | 90024901 | | | ELEMENTS WITHIN | • | |
| EW-09 | 90025104 | | | LIMITS (75-125%) | | |
| FB-01 | 90021708 | | | • | | |
| FB02 | 90021709 | | | | | |
| FB-03 | 90023606 | | | | | |
| HT-01 | 90025106 | | | MW2-01 | MW2-01 | |
| MW1-01 | 90025102 | | | PERCENT RECOVERY | ALL RPDs WITHIN | |
| - | | | | FOR ALL SPIKED | CONTROL LIMITS (20%), | |
| MW1-02 | 90025101 | | | ELEMENTS WITHIN | EXCEPT Cr(200%), Cu(58,8%) | |
| MW1-02D | 90025101D | | | LIMITIS (75-125%) | AND Zn(41 9%) | • |
| MW1-02S | 900251015 | | | | | |
| MW2-01 | 90024902 | | | | | |
| MW2_01D | 00004000 | | | | | |
| NAW - OIL | 900243020 | | | | | |
| D-2 | 00074801 | | | | | |
| * | 10047004 | | | | | |
| 8-d | 90025105 | | | | | |
| | | | | | | |
| MW4-02 | 90023901 | INITIAL ICPICS | INITIAL ICP/ICS | MW4-02 | MW4-02 | ALL PERCENT RECOVERIES |
| MW4-023 | 900239015 | %R WITHIN COTROL | %R WITHIN COTROL | PERCENT RECOVERY | ALL RPDs WITHIN | WITHIN CONTROL LIMITS |
| MW4-02D | 90023901D | LIMITS(80-120%) | LIMITS (80-120%) | FOR ALL SPIKED | CONTROL LIMITS (20%), | (80-120%) |
| | | | | FLEMENTS WITHIN | EXCEPT Cu(38.8) AND 72.41 8) | |
| | | | | TIMIT 13 (13 - 173 70) | Zu(*1.9) | |
| | | | | | | |

| | | | Table P-19c. | Data Validatio | Table F-19c. Data Validation Tables: Priority Polluant Metals (Continued) | | |
|---------------------------------------------------|----------------------------------|--------------------------------|------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--|
| SAIC Sample Number | Laboratory ID Number | Standard Addieon Reaults | Floid Hank Results | Equipment Blank Rosalts | Significant Sample Roadb | Data Qualifors | |
| WATER EW-01 EW-03 | 90021710 | | V V | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | A4(2UW), P6(1.3B), Za(9.0B) P6(1.3B), Za(14.0B) | Pb=1.34(MB,B)/Za=94(MB,B) Pb=1.34(MB,B)/Za=1.44(MB,B) | |
| EW -05 EW -07 | 9002401 90024901 90025104 | | < < < < × × × | <u> </u> | A4(20UW), Pb(82) A4(43B), Pb(21B), Se(3.0UW) Pb(23B), Za(9B) | Po=5.2(MB) Po=2.3(MB) Po=2.3(MB)/Zo=94/MB) | |
| 78-01 10-01 10-01 | 90021706 90021709 90023406 | | < < < < < < × × × | 4 4 4 | Cu(14B), Pr(3.4), Se(3UW), T(2UW) Pr(2.6BW), Se(3UW), Zu(80) Au'2.01W), Pr(1.4BW) | Cu=14(B)7b=3.4(MB,B) 7b=2.6(MB,B) 7b=1.4(MB,B) | |
| HT-01 MW1-01 | 90025106 | | | NA EB-07 | Cu(12B, Pc(21B, N(19B, TK20UW), Za(11B) Aa(5BB, Cu(11B), Pc(45B), N(14B), Se(3UW), Tiction, Zacista | Cu=12(B)7D=2.14(MRB)Ni=198(MRB)Zn=111(MRB) Au=5A(B)Cu=114(FRB)7D=4.54(FRB)Ni=144(MRB) Zn=15/FRB | |
| MW1-02 MW1-02D MW1-02S MW2-01 MW2-01D | | Se: r=0.9994, FINAL CONC.=9.5 | FB-01,-02,-03 FB-01,-02,-03 FB-01,-02,-03 FB-01,-02,-03 | EB-07 EB-07 EB-07 EB-07 | A4(3.4B),Cu(32),Fb(14.3),So(3UW),Tl(2UW),Za(51) NA NA A4(5.3B), Cu(22B), Fb(27.9), So(3.0W), Za(26) NA | As = 5.4(B)/Cs = 324(FB)/Tb = 14.34(FB)/Zn = 511(FB) None Applied None Applied None Applied None Applied | |
| MW2-018 P-2 P-8 | 90024801 90024801 90025105 | | FB-01,-02,-03 FB-01,-02,-03 FB-01,-02,-03 | EB-07 | A433B), Ou(43), Pb(10.5), Ni(32B), S4(3UW), Ti(2UW), Zb(25) Cu(37), Pb(6.9), Ti(2.0UW), Zb(24) | Name Applied Na=3.34(BM)Cu=434(BM)Tb=10.53(EB)Ni=322(MB.B)/ Zn=254(FB) Cu=371(FB)Tb=6.94(FB)Zn=244(FB) | |
| MW4-02 | 90023901 | V N | | EW-09 | A4(3.3 BW), Cu(27), Pb(29.4), Ni(16B), So(3UW), Zn(32) | As=3.31(AB,B)Ni=16J(MB,B)Hg=0.2R(HT)/ Zo=92J(MB) | |
| MW4-02 B MW4-02 D | 90023501.D 90023501.D | | FB-03 FB-03 | EW - 09 | Y X | None Applied | |

| | | | | | racio r - 1 ye. | 18086 F. 190, Floring Political Metal Cata Validation Wombiests Indiana Air National Guard Base Fort Wayng, Indiana | Wayne, Indiana | | |
|------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| SAICS ample Number | Laboratory Identification Number | Sampling Dates | Preparation Dates | Analysis Dates | Lakial Calibration (ICV) | Costlaules Califration (CCV) | Iskis! Celifration Blank (ICB) | Continuing BLANKS Continuing Coliforiton Blask (CCB) | Proparation Black (PB) |
| WATERS EB4-1 MW4-01 MW4-02 MW4-02 P-1 | 1300 1430 1430 1430 1430 1430 | 11/01/91 11/06/91 11/06/91 11/07/91 | 1481/1 1481/1 1481/1 1481/1 1481/1 1881/1 | 11/19-2591 14/19-2591 11/19-2591 11/19-2591 11/19-2591 | ALL ICV 948s WITHIN CONTROL LIBRITS (14g=80-12s, ALL OTHER METALS=90-110) | ALL.CCV 948 WITHIN CONTROLLIMITS (14g=80-12A ALL OTHER METALS=90-110) | NO INTERPRENCE DETECTED IN THE DITTLE CALBRATION BLANIS AT CONCENTRATION OREATER THAN THE CLP CADL | NO INTENPERENCE DETECTED IN THE CONTINUING CALEKATION BLANKS AT CONCENTRATION OREATER THAN THE CLF CR.D. *CCB?: Fe=-1.39 pg/l | NO DYTERPRENCE DETECTED BY THE REPORATION BLANTS AT CONCENTRATION OREATER THAN THE CLECKED. |
| SOILS 884-3-1 884-3-2 884-3-2 881-3-4 88D-1 | 96897 96877 96877 | 16/20/11 16/20/11 16/10/11 16/10/11 16/10/11 | 16/87/11 16/87/11 16/87/11 16/87/11 16/87/11 | 11/19-2091 11/19-2091 11/19-2091 11/19-2091 | ALL ICV 448s WITHIN CONTROL LIMITS (14g-50-10) ALL OTHER METALS = 90-110) | ALL CCV 988 WITHIN CONTROL LIMITS (Hg. 90-19, ALL OTHER METALS = 90-110) | NO DYERPERICE DETECTED IN THE DITIAL CLERATION GREATER AT CONCENTRATION OREATER THAN THE CLECADL | NO DYTEMPERENCE DETECTED IN THE CONTRUING CALERATION BLANKS AT CONCENTRATION OREATER THAN THE CLF CRDL. "CORE PR.—1.28 ag/ "CORE PR.—1.28 ag/ "CORE PR.—1.28 ag/ "CORE PR.—1.28 ag/ "CORE PR.—1.28 ag/ | NO INTERPREDENCE DETECTED IN THE PREPARATION BLANTS AT CONCENTRATION ORBATES THAN THE CLP CR.DL. |
| WATERS EBLA-1 | 119629 | 16/50/11 | 11/1491 | 16/02/11 | ALL ICV MRs WITHIN | ALL CCV 948s WITHIN | NO INTERPERENCE DETECTED IN | | NO INTERMEDIANCE DETRICTED IN |
| MW1-02 | 033611 | 16/50/11 | 11/1491 | 16/02/11 | CONTROL LIMITS (Hg=60-120, ALL OTHER METALS=90-110) | CONTROL LIMITS (Hg=80-120, ALL OTHER METALS=90-110) | 2 | THE CONTROLLING CALLERATION BLANKS AT CONCENTRATION OREATER THAN THE CLF CRDL. | |
| 1-18B1 | 20011 | 16/50/11 | 10/14/91 | 16/02/11 | | EXCEPT OCV'S Se=-28% | *!CB: As = 1.0B/Pt = \$.1B/Pb = -1.6B/ N= 9.9B µg/l | *CCB1: Al=11.78/As=-1.28/Fe=3.18/ Fe=-1.68/As=9.48 Ag/ | *PBW: Al=31.1B/A==1.1B/O=189.2B/ O= 2.1B/Re=24.4B/Re=-1.4B/ |
| PB1-1 | 119611 | 16/10/11 | 11/21-2591 | 11/22-26/91 | | | | *CCB3 Al=19.98/As=-1.48/Re=5.1B/ *CCB3 Al=19.98/As=-1.48/Re=5.1B/ ************************************ | |
| FB4-1 | 665611 | 16/70/11 | 17/1491 | 1656/11 | | | | *CCB4 Al=11,86/a= 1,48/e=1,28/ Pb=-1,88/a=12,89 ag/ *CCB3 As=-1,48/Pb=-1,39 ag/ | |
| \$01L\$ B01-1-1 | 009611 | 16/00/11 | 11/20-21/91 | 1657-12/11 | ALL ICV MRs WITHIN CONTROL LIMITS (Hg=80-120, ALL | ALL CCV %Rs WITHIN CONTROL LIMITS (Fig.=80-120, ALL | NO INTERPERENCE DETECTED IN THE INITIAL CALERATION BLANKS AT CONCENTRATION OREATER | ٠. | NO INTERPREDICE DETECTED IN THE PREPARATION BLANKS AT CONCENTRATION GREATER |
| BOI-1-3 | 109611 | 11/03/91 | 11/20-21/91 | 11/21 – 25/91 | OTHER METALS=90-110) | OTHER METALS=90-110) EXCEPT: CCV4: \$c=-22%, CCV10: \$c=88.9% | THAN THE CLP CRDIL 1031: Pa = 128 AgA 1031: Re = 408 AgA | OREATER THAN THE CLP CRDL. "CCBL Re= -480Ni= -4.50 μg/ "CCBL CL=9.50Ne=3.50Ng=1.60/ | THAN THE CLP CRDL. *PBSI: Al-27.467B/Ch=27.292B/ *Pc-3.453B/Mg=3.699B/ |
| BOI-1-3 | 709631 | 16/50/11 | 11/20-21/91 | 14/21-25/11 | | | | No LEB Agh "CCB4 No LEB Agh "CCB4 An - LEB Agh No ExB Agh | Ma=0.2315/Za=2,7005 rg/kg *PB\$2 As==0.2605/ks=0.2305 rg/kg |
| BO1-1-4 | 93611 | 16/53/11 | 1070-21/91 | 16/52 - 12/11 | | | | "COBSt As=-1.08/Cd=1.18/Fe=4.98/ Mn=1.28/Ne=-9.28 µg/ "COB¢ As=-1.08 µg/ "COBy Ps=-1.08 µg/ | |
| BO2-1-1 | 119604 | 16/60/11 | 11/20-21/91 | 11/21 – 25/91 | | | | "COBIT Pb=-1.18 AgA "COBIL: Fb=-1.08 AgA "COBI2: Sc=1.98 AgA | |
| BO2-1-2 | 119605 | 10/00/11 | 11/20-21/91 | 11/21-2591 | | | | **COB13: \$6=2.68 µg/ **COB14: \$6=2.98 µg/ **COB15: \$6=2.28 µg/ **COB16: \$6=2.28 µg/ | |
| BG2-1-3 | 909611 | 16/00/11 | 11/20-21/91 | 11/21~25/91 | | | | | |
| 3B1-1-1 | 986611 | 16/10/16 | 11/20-21/91 | 11/21-2591 | | | | | |
| \$B1-1-2 | 146611 | 16/10/11 | 11/20-21/91 | 11/21-2591 | | | | | |
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| Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple Supple S | Laboratory | | | IBGERS AT NATIONAL UNITY DESCRIPTION WAYNE, INCHES (COLESION ACCURACY PRECISION | PRECISION | Laboratory | Pield | Equipment |
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| ALLEGE AMPERING ANTER CONTROL LIMITR (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN CONTROL LIMITS (4-1284) POR ALL TO SEA WITHIN | Identification ICP/ICS Number Initial | | ICP/ICS Final | | Duplicate Sample | Control Sample (LCS) | Binak Results | Blank Results |
| ALL LOS 948 WITHIN CONTROL LIMITS ON EARTER THAN SAMPLE AND DIFFICANTE CONTROL LIMITS (15-12%) SAMPLE AND DIFFICANTE CONTROL LIMITS (15-12%) SAMPLE AND DIFFICANTE CONTROL LIMITS (15-12%) SAMPLE AND DIFFICANTE CONTROL LIMITS OF SAMPLE AND DIFFICANTE CONTROL LIMITS OF SAMPLE AND DIFFICANTE CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF SAMPLE AND CONTROL LIMITS OF | 15205 NA LASS 14305 14305 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14300 14309 14309 14309 14309 14309 14309 14309 14309 14309 14309 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 14300 1430 | z | | NW4-G) ALL SPING SAMPLE RECOVERES WITHIN CONTROL LIMITS (73-12%) | MW4-©] ALL RPD-WITHIN CONTROL LIMITS FOR SAMPLE AND DUFLICATE CONCENTRATIONS GREATER THAN 3X THE CRD. C. 5.5 % DATO WITHIN CONTROL LIMIT OF (2.5) XCR. FOR SAMPLE OR DUPLICATE CONCENTRATIONS LESS THAN 5X THE CRD. | ALL LCS 481, WITHIN CONTROL LIMITS (40–1204), POR ALL ELEMENTS | NA FB2-1 FB2-1 FB2-1 FB2-1 | NA EB2-1 EB2-1 EB2-1 EB2-1 |
| MAIL SING SAMPE MAIL FIDE SAMPE AND | 13200 NA NA ISAN ISAN 13201 13202 14395 14396 | Š. | | (82D-2) ALL SHIRE SAMPLE RECOVERES WITHIN CONTROL LIMITS (73 – 125%) | RED-2) RED OUTSIDE CONTROLLIMITS FOR SAMELE AND DUPLICATE CONCENTRATIONS GREATER THAN 5X THE CRDL (< 35 %), Pb=35.6% | ALL LCS %Rs WITHIN CONTROL LIMITS (80–120%) FOR ALL ELEMENTS | FB4 - 1 FB4 - 1 FB4 - 1 FB2 - 1 FB2 - 1 | EB4-1 EB4-1 EB2-1 EB2-1 |
| LEST TRANST THE CRU. ENTER TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. LEST TRANST THE CRU. | ALL SR WERE RETWEEN 80-120% FOR ALL ELEMENTS | 출흥필 | etween LL | (<u>KWI-©</u>) ALZ SPIRZ SAMPLE RECOVERES WITHIN CONTROLLIMITS (35–125%) EXCEPT \$0=43.5% | MW1-@ ALL RPD=WITHIN CONTROL LIMITS POR SAMPLE AND DUPLICATE CONCENTRATIONS GRAFTER THAN'S THE CRD. < 55 %) AND WITHIN CONTROL. | DATA NOT PROVIDED | A 187 | NA EBIA-1,1-1 |
| ALL SPINS SAMPLE MOTTHOUS) ALL SPINS SAMPLE AND ALL SPINS SAMPLE AND CONTROL LIMITS (12-124) ALL SPINS SAMPLE AND CONTROL LIMITS (12-124) ANALYSIS PLASS & CASSIS & ALL SPINS SAMPLE AND CONTROL LIMITS (12-124) ANALYSIS PLASS & AND THE CRID. ANALYSIS PLASS & AND MARKET AND CONTROL LIMITS (12-124) ANALYSIS PLASS & AND MARKET AND CONTROL LIMITS (12-124) ANALYSIS PLASS & AND MARKET AND CONTROL LIMITS (12-124) ANALYSIS PLASS & AND MARKET AND CONTROL LIMITS (12-124) ANALYSIS PLASS & AND MARKET AND CONTROL LIMITS (12-124) FBI-1 FBI-1 FBI-1 | 119621 119621 119699 | | | | LIMIT OF (\$JXXRIL POR SAMPLE) OR DUFLICATE CONCENTRATIONS LESS THAN 3X THE CR.D. | | ž ž ž | \$ \$ \$ |
| | 119600 ALL %Rs WERE RETWEEN ALL %1 80-120% FOR ALL 80-120% FOR ALL 80-120% FOR ALL 81.0601 ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS ELEMENTS EL | ALL % 80-12 81-13 | LL | [EQ2-1-1] (TWO TIMES) ALL SPINES SAMENES ALL SPINES SAMENES CONTROL LIMITS (75-12%) EXCEPT: Bin-42%, Cu-51.6%, Mm=306,5%, AND 2nd LEAD ANALYSIS Pb=39.5% | | DATA NOT PROVIDED | 781 -1 781 -1 781 -1 | EB4-1 EB4-1 |
| | 119603 | | | | | | 1-18 | EB4-1 |
| | 119604 | | | | | | PB1-1 | EB4-1 |
| | 119605 | | | | | | ï- | EB4-1 |
| | 119606 | | | | | | FB1-1 | EB4-1 |
| | 118596 | | | | | | 1-76 | E84-1 |
| | 119897 | | | | | | PB4-1 | 1-782 |

| | | Indiana Air National Guard Bras | s noe F – 190. F foots of course for which the second course in the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the foots of the fo |
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| SAIC Sample Number | Laboratory Identification Number | Significant Sample Results | Data Validation Qualifiers |
| WATERS EB4-1 NW4-01 NW4-02 NW4-02 P-1 | 13203 1435 1435 1439 1439 | Nose Detected Po-229-yd Po-1162-yd Po-1162-yd Po-1162-yd Po-1162-yd | None Applied None Applied None Applied None Applied None Applied |
| SOIL.S SBM-3-1 SBM-3-2 SBM-3-4 SBD-1 SBD-1 | 13200 13201 13222 14396 14396 | Pb=19.3* mpfig Pb=11.1* mpfig Pb=10.1* mpfig Pb=29.5* mpfig Pb=1.4* mpfig | 1934(*) 1037(*) 1037(*) 1037(*) 104(*) |
| WATERS EBIA-1 MW1-02 | 119629 | Al=28.1B/Ca=119B/Ca=3.7B/Fe=34.2B/Mg=20.9B/Se=1.0UN/ Na=143B/Za=6.4B μg/l Al=10000/Na=7.4R/Be=2.48/Ga=1.7B/Ca=1.7B/Ca=2.34000 Ca=1.25.7 a 18/Ca=2.34000 | Ai=2& U(MB.B)/Cs=119f(MB.B)/Cs=3.7f(MB.B)/Fs=34.2f(MB.B)/Mg=20.9f(MB.B)/Fs=1Uf(N) Ns=143f(MB.B)/Zs=8.4f(MB.B) As=7.4f(MB.B)/Es=1.1f(MB.B)/Cs=6.7f(B)/Cs=8.1f(B)Mi=30.2f(B)/Ss=3.4f(N.B)/V=25.9f(B) |
| EB1-1 | 119628 | Na = 577N-1=50.2B/K=55046=3.5BN/Na=11800/V=25.9B/ Za=964 µg/i Za=764 µg/i Za=127.3B/C=118K/Za=116B/Qu=4,3B/Pa=29.0B/Ng=27.0B/ Sa=1 nitN/na=97.8B/za=27a.4 | Al=37.3(MB.B)Cd=1.8(B)Cb=116(MB.B)Cu=4.3(MB.B)Fe=29(MB.B)Mg=274(MB.B)Se=1UJ(N N==97.1/MR.B)7s==4.214(MB.B) |
| 781-1 784-1 | 119621 | Al=50.00Ch=86.8Fe=14.00Ahg=1228/ Zn=5.18.90Ch=86.8Fe=14.00Ahg=1288/ Zn=5.18.90Ch=3.00Ahg=15.9BCd=1.8BCn=3730QCn=16.5B/ Re=91.2Pc=2.00Ahg=1970BAhg=9.9BK=5990Se=1.0UNW/ Nn=8470V=5.18Za=11.18.pg/ | Al=25G/MB_BY20=66.31(AB B)Pe=14f (MB_B)Mg=15.8f(MB_B)Se=1UJ(NY N=122f(MB_B)Ze=5.1f(MB_B) Al=40.2f(MB_B)Ze=2f(MB_B)Pe=15.3f (B)Cd=1.8f(B)Cb=16.5f(B)Tb=3f(MB_B)Mg=1970f(B) Ma=5.3f(B)Se=1UJ(N)V=5.Uf(B)Za=11.1f(MB_B) |
| SOIL.S BG1-1-1 | 119600 | Ale 113008 be 3. CUN/Ase 6.5 Ra = 99.1 Ra = 0.09 RCd = 0.678/ Ca = 43.20 CV = 42.2 Co. = 11.5 CA = 3.00 N Fe = 2.00 CM = 5.2 CW Mas = 15000 Mas = 578" Nil = 56.5 K = 1406s = 0.21 UN/Ns = 52.2 BV | 8b=3UJ(N)5b=0.69J(B)/Cd=0.67J(MB.B)/Ca=30.2J(N,*)/Ma=573J(N,*)/Ma=92.2J(FB.B) Tl=0.24J(B) |
| BG1-1-3 | 109611 | Tie 0.286/V = 25.9/Ze= 75.9 mg/kg Ale 1300Qbe 5.3/U/Aca 5.9/Ze= 13.4/Ze= 0.2664 / Fe= 0.608/Ze= 0.348/ Ce= 3000°/Ce= 21.1/Ze= 13.4/Ze= 0.2664°/Fe= 27000/Fe= 1.4/ Mg=9210Ade= 5751°/Nis= 34.7/K= 1560Se= 0.24UV/Ns= 87.08/ | \$6=3.3UU(N)B6=0.60I(B)Cd=0.14(MB.B)Ch=28.6I(N.*)Mds=57M(N.*)Mh=67I(PB.B) T1=0.40I(B) |
| BG1-1-3 | 119602 | Ti=0.40B/V = 30.3/Za = 93.0 mg/kg A=95003623.5 B/W.A=7.5/Ra=7.3/Ra=0.3 CB/Cd=0.7 IB/ Ci=13.4007/Ci=15.7/Cc=16.7/Ra=7.2078=0.23UW/Na=147B/ Mg=16700Ma=432V*/Ri=27.9/R=21.2078=0.23UW/Na=147B/ | \$b=3.54(N,B)Bo=0.5 G(B)Cd=0.71J(MB,B)Co=10.25(B)Cb=24.25(N,*)Ma=452(N,*) No=1473(B)TT=0.405(B) |
| BG1-1-4 | 119603 | Ti=0.408N = 21.072s = 723 mpkg A=100005b=3.2UN/As=1.78s=78.69s=0.608Cd=0.648/ Cn=64600 VCn=19.12Co=13.5,Cn=23.0N -76s=221007b=10.3/ Mg=166007Ms=392V*/NI=37.4/K=22703s=0.231UW/Ns=1498/ | \$b=3.118(N)Bo=0.601(B)Cd=0.641(MB,B)Co=231(N,*)Ab=3921(N,*)Nb=1441(B) Ti=0.34(B) |
| BG2-1-1 | 119604 | Ti=0.54B/V=25.9/Za=76.1 mg/tg Al=100008b=3.64DV/Au=7.8f8=102/f8=0.73B/Ca=6430/ C=16.3/Co=7.8f8/2a=62DV?f8=191007f6=18.6f4[g=3140/ | \$\$=\$\$GUGN)\$6=0,73(BYC>=7.8(B)XC>=46.22(N,°)M6=334(N,°)K=1194(B)YN6=354(PB,B) |
| BG2-1-2 | 119605 | Na = 3304*/*/II=1540;** 1380;** 1380;** 23.02** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** 23.42** | 8b=3.2UG(N)Bo=0.5U(B)Cd=0.4E(MB,B)Co=10.4(B)Cu=21.9(N,*)Ma=42U(N,*) Na=142(FB,B)Tl=0.4M(B) |
| BG2-1-3 | 90%11 | TI=0.45B/V=Z2.5/Za=63.8 mg/g Al=12305b=3.3UN/Aa=1.2B/Ba=8.7B/Ca=69100°/Cr=3.9/ Co=15B/Cn=79N°/Fe=34007b=2.0Mg=830Ma=13NN°/ | \$6=3.1U(N)As=1.2(MB.B)VBs=8.7(B)Co=1.5((B)Cs=7.3(N,*)Ybs=24(FB) Ms=134((N,*)Ni=64(MB.B)K=272(B)Ns=60.64(FB.B)V=4.2(B)Zs=16.14(MB) |
| SB1-1-1 | 119596 | N=6,09K=2728/h=6,66W=4,528/z=16,1 mpfg N=46,00F=1,1UYA=9,5/fe=34,8/Fe=6,38/Z0=106000'/ C=6,5/Co=6,600C=22,4 V-fe=13600Po=13.7/Mg=19100'/ Ma=374V-YN =20,2/K=6,7/Fe=02.8/Whe=81.9/F/T=0.390V | \$b=3.1U(R)@=3&1KB(B)ge=633K(B)CO=6.5K(B)Cu=22.4K(N,')Ma=374KN,')K=657K(B) \$o=0.28(MB)yna=81.3K(FB,B)7T=0.35K(B) |
| \$B1-1-2 | 118697 | V = 13.4/Za=283 mg/kg. Ala 11000(Sb=3.4/D/M,a=9.4/Ba=100(Ra=0.4/DR/Ca=0.74/V Ca=4600 */Ca=18.6/Co=8.7/B/Ca=27.4fV*/Fa=23700(Fb=13.6/ Nga-370/A/Ba=2351*/Mi=28.4/K=1150B/Ka=0.25UW/Na=48.0B/ V=27.4/Za=83.5 ms/ka | \$b=3.446(N)\$b==\$£36(B)\$b=0.006(B)\$Cd=0.746(MB,B)\$Cb=£7(B)\$Cb=27.46(N,*)\$Mb=5254(N,*)\$ K=115G(B)\$Nb==441(Pb,B) |

| | | | | | Table F - 19e. Indhet | Table F - 199. Priority Politican Metals Data Validation Workshoom Indiana Air National Guard Base Fort Wayne, Indiana | ta Validation Worksbeets ert Wagne, Indens | | | Γ |
|-----------------------|-----------------------------------------|-------------------|----------------------|-------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| | Laboratory | | | | | | | BLANG | | \prod |
| SAIC Sample Number | Identifbation Number | Sampling Dates | Preparation Dates | Analysis Dates | luttel Calibration (ICV) | Coetlauling Calibration (OCV) | Laith Calforation Blank (ICB) | Continuing Calibration Blask (CCB) | Properation Black (PB) | |
| \$003 881-1-1 | 119386 | 16/10/11 | 11/28-21/91 | 11/21-25/91 | | | | | | - |
| \$B! - 2 - 1 | 119407 | 11/05/91 | 11/20-21/91 | 11/21-25/01 | | | | | | |
| \$B1 - 2 - 3 | 90%11 | 11,02/91 | 11/26-21/91 | 11/21 - 25/91 | | | | | | |
| SB1-2-3 | 609611 | 11,0201 | 11/20-21/91 | 11/21 - 25/91 | • | | | | | |
| \$B1 -2-1 | 07%11 | 16/20/11 | 11/20-21/91 | 11/21 - 25/81 | | | | | | |
| \$\$1A-1-1 | 119611 | 11/04/91 | 11/20-21/91 | 11/21 - 25/01 | | | | | | |
| \$BIA-1-2 | 119612 | 16/90/11 | 11/20 - 21/91 | 11/21-2591 | | | | | | |
| 8BIA-1-3 | 119413 | 11/04/01 | 11/20-21/91 | 1121-2501 | | | | | | |
| 8BIA-1-5 | *************************************** | 11/0/91 | 11/20-21/91 | 11/21 - 25/91 | | | | | | |
| \$BIA-2-! | 119613 | 11/04/91 | 11/20-21/91 | 11/21-2591 | | | | | | |
| \$BIA-2-2 | 919611 | 11/04/91 | 11/20-21/91 | 11/21-25/01 | | | | | | |
| SOILS 881-1-7 | 029411 | 16720/11 | 11/20 - 23/91 | 11/21 - 2591 | ALL ICV SER WITHIN CONTROL LIMITS | ALL CCV SE WITHEN CONTROL LIMITS | NO SYTERY BRENCE DETECTED IN THE BUTLE CALLEMATON MALANKS | NO INTERPRESENCE DETECTED IN THE CONTRACTOR CENTERATION THE AND AT CONCRETE ATTOM | NO BYTERFER REPORTED THE PRESENTED IN THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESENT AND A THE PRESEN | |
| 1-6-11-9-1 | 119623 | 19/50/11 | 16/52-92/11 | 11/21 - 25/81 | OTHER OTHER METALS = 90 - 116) | (ng=00-104, ALL OTHER METALS=90-110) EXCEPT: CCV3: Pb=111.7% | | GREATER THAT THE CLF CRDC. *CCB:: Pe=128Me=-1.6M | THAN THE CLF CRID. THAN THE CLF CRID. THE: AL 20 HTMMs - 0 HIM. | |
| 831-3-3 | 119623 | 16/59/11 | 11/20 - 23/91 | 11/21 - 25/91 | | | *(CBG: Pb=-1.28 pg/l | CCB2: CA-24876-1428 pg/ CCB3: Fa-1448 pg/ CCB3: Fa-1448 pg/ CCB4: Fa-1448 pg/ CCB4: CA-1488 pg/ | Mg = 5.090M/m = 5.090M/m Mg = 5.090M/m = 5.090M/m T1= -0.210M/m = 2.970B mg/kg | |
| SB(-3-3 | 16931 | 16/50/11 | 11/20-23/91 | 11/21 - 2591 | | | | CCBP: Pb=-1.28 pg/ | | |
| 8B1-3-3R | 119625 | 11/03/61 | 16/62-02/11 | 1452-12/11 | | | | | | |
| \$BIA-2-3 | 119617 | 11/04/91 | 11/20 - 23/91 | 101-2501 | | | | | | |
| 1-1-VIQ5 | 119618 | 16/99/11 | 11/20-23/91 | 11/21 - 25/91 | | | | | | |
| \$BIA-3-2 | 979611 | 11/04/91 | 11/20-23/01 | 11/21-25/01 | | | | | | |
| \$BIA-3-3 | 6134611 | 11/04/91 | 11/20-23/01 | 1021-2501 | | | | | | |
| \$BIA-3-5 | 119437 | 11/03/01 | 11/20-23/91 | 11/21 - 25/91 | | | | | | |
| | | | | | | | | | | |

| | Equipment Binak Results | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | 7-191 | 7 | 7 2 | 1- 188 | 1- 100 | 7 | 7 | ä | - - | 1-10 | - - - | BBIA-1,1-1 | 881A-1,1-1 | 1. 1.1.1.1.1 | BBIA-1,1-1 | | BM-1 | B81A-1,1-1 | 1 - 148 | RB1A-1,1-1 |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|-----------|----------|----------------|-----------|----------------|------------|-----------|-----------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------|------------|-----------|----------------|------------|----------------|----------------|
| : | Piek Black Black | I | FB1 - i | 1-162 | FBI - 1 | 1-181-1 | 1-192 | 1- 16 1 | 1-122 | 1- 1 61 | 1 160 g | FB1 - 1 | 1-16k | 1-101 | 1- 10 <u>.</u> | - 1-142 | 1-18d | 1-194 | FB1-1 | PBI - i Bi | - 1 2 L | FBI - 1 |
| | Laboratory Control Security | (over) admin | | | | | | | | | • | | DATANOT PROVIDED | | 1 2 4 | | | | | | | |
| bats Validation Worksheets Vayne, Indians (Continued) | PRECISION Duplicate Search | | | | | | | | | | | | BMA-3-3 AL RPD: WITHIN CONTROL | LIMITESTAN RAPITES AND DUPLICATE CONCRETATIONS OR BATER THAN SK THE CRDL (< 35 %) AND WITHEN CONTROL | LESS THAN SC THE CROS, EXCEPT LESS THAN SC THE CROS, EXCEPT As 32.2% | | | | | | | |
| Table F - 19e. Priority Pollutant Metals Data Validation Worksbees Indiana Ak National Guard Base Fort Wayne, Indiana (Continued) | Spike Semula | O de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la proprieta de la propri | | | | | | | | | | | N (BLA-)-1 ALLPERSAMPLE | NECONTROL LIBRARY (17 - 1254), BKCBFT: 86-99.4% AND 80-99.6% | | | | | | | | |
| E a | ICPACS | | | | | | | | | | | | TIVEEN ALL SAR WERE BETWEEN | | | | | | | | | |
| | ICPACS | 1 | | | | | | | | | | | ALL WR WERE BETWEEN | | | | | | | | | |
| | Laboratory Identification Number | 11030 | 109411 | 119601 | 409611 | 119610 | 119611 | 119612 | 119613 | 119611 | 119613 | 119616 | 000611 | 119622 | 119623 | 119624 | 119625 | 13811 | B 19611 | 119636 | 619611 | £29411 |
| | SAIC Sample | \$013 \$81-1-3 | \$M -2-1 | \$B1-2-2 | \$B1-2-3 | \$B1 -2-7 | 381A-1-8 | \$BIA-1-2 | \$BIA-1-3 | 8BIA-1-5 | \$BIA-2-1 | \$B!A-2-2 | SOUS 581-1-7 | \$61-3-1 | \$B1-3-2 | 881 - 3 - 3 | \$81-3-3R | \$B1A-2-3 | \$BIA-3-1 | \$BIA-3-2 | \$BIA-5-3 | 5BIA~3~ |

| | | Table F. 196. Priority Polistent I Indiana Ale National Guard Resea | Table F. 19a. Pierky Politizat Mozab Data Validation Workshees Inclina A.P. Marken (Tured Base Port Warns, Indiana (Cembased) |
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| | Aboratoria | | P |
| SAIC Sample Number | Lacoratory Ideatification Number | Supple Supple Results | V States V States of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitution of Constitut |
| \$002 \$11-1-3 | 36 611 | Al-100005b-3.2JN/As-9.0Zb-1767b-0.590Cd-0.039V Cs-5500FC-10.0CG-14.5Cs-14.5CF-21000F6-16.2 Mg-15000Ad-1520V-M1-39.8K-21005c-0.23UWns-1009 | 86=1 XIJ/RY/Re=6.54(EB/CK=6.83(EAR.BJCx=394)R**)p46=1330FR**y Na=166(PB.B)KTI=6.334(B) |
| 351 -2-1 | L896 11 | The Libba - 54 2/26 = 604 makes Al-1200066 = 3 IT/No 8 1/85 = 0.6 1/85 = 0.6 1/85 Cd - 6.72 V Cs - 44 207/Cc - 20 IL/O- 8.8 (2/2) = 20 IL/O 1/8 = 1.8 V Ms - 1300046 = 39 20 //Ni - 27 (4K - 171006 = 0.22) W/N = 92 48 V | 18=5 XJ/RVJ88=&&&71(B)Cd=&721(BQ_B)Co=6 A/B)CL= 22.1184."/Ms = 393184."/V Na=92J(B).By(Ti=&3J(B) |
| \$B1 -2-2 | 800 | The CAIDV-STAKEN begoing the CAIDV-STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAKEN - STAK | 86—3 XJ(RY)88—673(B)CO—16.4(B)C—18.6(P)."YMs—2034(N,"Y K—1880(B)Rss—55.4(P)ByTI—6.284(B) |
| 8Bt - 2 - 3 | 609611 | 24=700 mg/kg 24=700 mg/kg C==4679/CC=24,5C0=524/CC=25.8/79/6=37468/P6=14,9 Mg-5426/M6=32220/PRI=94,9K=161646=0,32JWRN=69.7B | 86—1.62/201/88—0.746/83/CC—28.82(N.°)/84s=3228(N.°)/ Ns=68/34(F8,8)/TT—6.404(B) |
| 8B1-2-7 | 019411 | The LOBY = N. XXX = 111 mg/kg. Al-97704b. X. XXX = 170 mg/kg. = 2.9872 = 2.337 C= 7370F.C= 17. XXX = 2.0. N° Fe = 3100FFe = 7.7 Mg = 1700Fd. = 300Fg. XX = 2020Fe = 143771 = 3.737 | 8b=3.4U/(N)f0c=6.504(B)Cd=6.534(BQ)B)Cc=1643(B)CC=-29.11f0;")/Ms=39040;"y Ns=143(f0B)B)/f1=6.334(f0) |
| 8B1A-1-1 | 1 | V = 41,724=646 mpts Ale 22048b=2,271VA=4, I/Rn=81,506=4,2 Mpts=1,307P6=31,97 Cn=2710PVC=15,2Cn=4,10Cn=17,20VP6=21,30PP6=31,97 Mg=20PPA=4420V-PH=23.44K=703E0s=4,23UWN=93,229 ——————————————————————————————————— | 86-3 XU(A)f8-88-451(B)C4-1 X(NB)C6-8 A(B)C3-17.11f4" yA4s-4881f4" y K-783(B)As-51 X(FB,ByT1-8 XHB) |
| 8BIA-1-2 | 19613 | Ti-eL_SHW-52.XQL=62.3 mg/R; Al-92447b-3.4CN/An-6.4Sn-68.TB6.61B/Ch2.P Cn-43497/Cn-616.QCn-618.ShCn-613.Th-Ph198047b31.X Mg-9429/An-5346/-YHI22.7XC-10798PfnB0.0B/TI-0.272F Cn-43497An-5346/-YHI22.7XC-10798PfnB0.0B/TI-0.272F | 11-3.4U(m)/da-46.61/B)/CD-18.3(B)/Cu-19.71(M.")/da-544(m.") K-197b(B)/da-301(P).B)/T1-4.71/(B) |
| 8-1-VIE8 | 6 | V = 2,42(A = = 0 = 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + | 50 - 1. XV)(P)/NB4.434 (B/C4-4.534 (BM)/C9-544/(B)/C3-24.21(P), 'yA4s-3144(P), 'y 5- 4. Mat (M.B.)/Ks-1644(PA, By/T)-4.324 (B) |
| 8BIA-1-5 | 1 | THE CARD = 13.700 = 13.700 = 13.800 = 3.800 Cd = 4.220 A = 62200 Cd = 3.270 Cd = 63.800 = 6.200 Cd = 6.220 Cd = 1500 Cd = 17.000 = 16.700 = 32.800 Pd = 23.900 Pd = 10.30 Me = 1500 March = 11.800 Cd = 13.800 Pd = 13.800 Td = 6.60 U. M. CG = 12.800 Cd = 13.800 Td = 6.60 B | i b = 1 XU (P) /B= = 4 XM (B) /C= 4 F2/(PB, B)/C= - 18 F2 (B)/C= - 24 (P), ")/A= - 4 IA(P), ")/ N= -1 XM (PB, B)/T1= 4 A1(P) |
| 8BIA-2-1 | 119613 | A = 52005 = 3.7 (A = 12 dPa = 74.4 (B = 4.68 DC4 = 8.44 B A = 52005 = 3.7 (A = 12 dPa = 74.4 (B = 4.58 DC4 = 21.4) C = 5000 C = 1.3 (C = 14.6 C = 31.4 (B = 27000 Pb = 21.4) Mg = 4800 Ma = 66 EV = MI = 34.5 (K = 6990 Bc4 = 4.23 U W/N = 52.58) | 19 - 1. XU(0)/m 6.68(B)/C4-6.44(MR B)/C5 - 34.40(1.)/Ms - 6630(1.)/ K-095(B)/Ms - 31.30(M, B)/T1-4.53(B) |
| \$BIA-2-2 | 919611 | The ASSBY - ASSBAL 16 might A = 454669 - ASSBAL 16 might - ASSBAL - ASSBAL Co = 10000 CO = 1000 - ASSBAL - ASSBAL Ko = 10000 CO = 1000 - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - ASSBAL - A | 86 - 2, XL(G)/Bb - 44.51/Bp/C4-45.74/GB/Bp/C5 - 7.24/Gb/C5 - 28.7361, "/Me - 347761, "y 84 - E.AAZ MB,Bp/Ac - 1647(FB,Bp/T1 - 4.31//B) |
| \$00.8 \$34 - 1 - 7 | 119620 | Al=550(8h=3.87k/As=8.97hs=62.4/hs=0.4.hCd=8.33k/ Cs=1700(Cs=17.0Cx=63.8)cs=22.4ds=2000(Fs=11.4/ Mg=17.00(As=24.4k)=23.8ds=21004s=6.24(17)(Ns=15.3) | 5b=3 XJJ@1jAA=8k[*]fb=464k[B)Cd=6.33k[h@,B)Co=10.3/(B)As=0.34L](r)y Ne=165([Bb.Byff=8.53k[h],B) |
| 1-6-108 | E | Ti-0.158/V-21.625a-619 mp4c A-11986b-3.13(N-6.13/Pb-195Pb-6.618/O-1689V C3216/C18.5/O-16128/O-23.5Pb-3020Pb-16.6 Mg-19090ba-29.9H-32.16.41669-6.2989V/Mh-86.99 | 86—3 Xijpijaa—4 Xipye — 6 611(B)C2—8 58ipiq B)C2—18 23 B)64—8 593 HBM By Na — 88i(B,B)cti—8 84j Ma,B) |
| 1-1-188 | 119433 | T-0,502V - 36,22Co = 87,5 mp/g; A-0,9040Co + 1,400 A-2,77m - 7,24m - 6,44mCd - 6,792V Co - 20080CC - 1,400 - 9,240Co - 87,47w - 17000F0 - 34, y Mg - 1,4060fd47,52V - 25,60C - 1100060 - 8,220,7040 - 87,53V | 86=1, 12J/(V)/Na =67/1/1918==8.44(19)/Cd=4.74(14,8)/Ca=6.23(19)/K=11001(19)/ 8e=6.25J/(V)/Na=67/24(18)/Ra=87/71=6.24(18)/Ra 8e=6.25J/(V)/Na=67/24(18)/Ra=87/71=6.24(18)/Ra |
| \$B1-3-3 | 77,00 | 71-6.58EV - 38-85C - 837 males Al-machine 3.32EV/Au - 3.97En - 78.45En - 0.48EC/d - 6.79EV Cu - 522EVC - 6.4Co - 7.3ECu - 53.1Fb - 1830EV - 3.4 Mg - 136EVG - 93-38V - 23.46K - 1890EVG - 6.23VVR n - 79.5EV | 86=1 XU/N)A4=1A(7)Se=044G(B)C4=474U(A B)Cs=7.5(B)7%=244PR)K=100U(B) 8=4.2XU/N)A6=79.14(B),B) |
| SB1-3-3R | 119625 | V = 21, XZ==000 mg/s, x 1770m = 104/20 = 0, cff BCd = 0, 53 g/ Cl = 1, XX=BCT = 1, d(Cl = 1, d(Cl = 1, d(Rl = 1) 99 g/s) = 1, 3, y Mg = 1070g/bd = 33 g/s/ = 1, 1, K = 170g/bd = 0, 25, N W/s = 113 g/s | 18-3 4/6/B/44-5.7/4/76-6.7/4/B/C4-6.53/(A,B)/C8-11.4/(B)/P9-10.5/(F)/y 8-6.22/J/(V)/M-113/(BA,B)/T1-8.4/4/(A,B) |
| \$BIA-2-3 | 119611 | The CRBV + SEAGE + 429 make All (1994) b. 3. The Last - 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + 13. The + | 86—1. XURVIVA—1.XV(T)FB—8.88V(B)C2—8.38K/HB,B)C2—7.AI(B) 86—8.26U(V)M—3.AI(FB,B) |
| \$BIA-3-1 | B19611 | V=24.62a=74.5 mg/tg Al=3266b=4.978(Au=6.97b=44.204=6.510.0=12460y O=4.400=4.4000=12.940=111097b=9.344g=51700Ab=390y | \$\$~4.50(f. B)/A~4.50(°)/C3~9 \$14 MT.B)/C3~4.64(B)/K~400(B)/ \$~~2.25(J.(f)/M*~100(F.T.B) |
| \$BIA-3-2 | 119638 | Al-501(645520K/ta-1)07(64-1)07(64)70(55)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455)00(6455) | 86-525(KB)44-73(*78-555(B)78-6278(B)Cs-5.44(B)4C-643(B) 8-623J(K)36-95.2(B)B)77-6.34(B)B) |
| \$B(A-3-3 | 619611 | A = 51346 = 1, 2017 (A = 7, 200 = 67, 400 = 4, 700 = 4, 239 A = 72040 = 1, 700 = 4, 800 = 23, 200 = 19200 0 = 10, 9 A = 12040 M = 1, 700 = 4, 800 = 23, 200 = 19200 0 = 10, 9 A = 12040 M = 1, 200 = 2, 200 = 2, 200 = 1, 200 M = 1, 200 M | 84-1, XLU(FV)/N=71(*)B= 0.47/ (B)CX-4, ZLV(4B, B)CX=4, 1/(B)V 64-4, XLU(FV)/N=156/(BB, B) |
| \$B1A~J~5 | 119427 | V - CANAGE - AND AND AND AND AND AND AND AND AND AND | 8b-1 XIJOPIAs-7 SIPISB-0-4430B)Cl-1 JORBACs-1 LIOB 8s-0 XIJI(N)M-134/BB,ByTI-0 34KNB,By |
| | | | |

| SAICSample Number WATERS P-8 P-8 FB3-1 FB3-1 | Laboratory Identification | 1 | | | | | | | |
|----------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------|----------------------|---------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| | Identification | | | | | | | BLANKS | |
| - 4 EAS - 1 B3-1 B3-1 AV2-01 | Number | Sampling Dates | Properation Dates | Analysis Dates | Initial Calibration (ICV) | Continuing Califration (CCV) | Lakla) Caltration Blank (ICB) | Contlaving Calibration Blank (CCB) | Preparation Black (PB) |
| 82-1 62-1 6W2-01 | 120963 | 16/0/11 | 12/1742691 | 12/16-27/91 | ALL ICV MES WITHIN CONTROL LIMITS (Hg=80-128, ALL | ALL CCV NRs WITHIN CONTROLLIMITS (Hg=10-130, ALL | NO INTERPERENCE DETECTED IN THE INITIAL CALBRATION BLANKS AT CONCENTRATION OREATER | NO BYTERFERENCE DETECTED IN THE CONTINUING CALLERATION BLANKS AT CONCENTRATION | NO INTERPERENCE DETECTED IN THE PREPARATION BLANDS AT CONCENTRATION OREATER |
| B2-1 AW7-01 | 130062 | 16/90/11 | 12/17/826/91 | 12/19-27/91 | OTHER METALS=90-110) | OTHER METALS=80-110) | THAN THE CLI CR DL | OREATER THAN THE CLF CRDL | |
| 10-ZAJ | 120964 | 14/90/11 | 12/17/23691 | 12/19-27/91 | | | "ICS: CO=-1.88/Pt=I4.78/Pt==-7.85/ Ti=-1.68 4g/l | Ti=-1.25 µg/ | 7 ************************************ |
| | 1209.38 | 16/90/11 | 169241/21 | 12/19-27/91 | | | | CCB Always - CAB - 1, 200 -CCB Always | |
| MW201R | 120960 | 16/90/11 | 12/1743691 | 18/12-51/21 | | | | | |
| 10-1AM | 12003 | 16/50/11 | 12/1722691 | 16/12-61/21 | | | | | |
| SOILS 884-1-1 884-1-2 | 13115 | 16/05/01 | 1669 1711 | | ALL ICV SE WITHIN | ALL CCV 9486 WITHIN CONTROL LIBRITS | NO INTERPREDICE DETECTED IN THE INTIAL CALERATION BLANKS | NO INTERPERENCE DETECTED IN THE CONTINUING CALERATION | NO INTERFERENCE DETECTED IN THE PREPARATION BLANKS AT |
| 86-1-6 89-2-2 | 13161 | 16/16/01 | 11/1491 | | (Hg=60-120, ALL OTHER MRTA15=60-110 | (Hg=69-130, ALL, OTHER META 18-90-119 | AT CONCENTRATION OREATER THAN THE CLF CR DL | BLANKS AT CONCENTRATION OREATER THAN THE CLFCRDL | CONCENTRATION OREATER THAN THE CLP CRDL |
| 189-1-1 | 13162 | 16/16/01 | 14/1/11 | 16/02/11 | | | *ICB1: Fb=-1.EB/E=-1.1B/ Th= - C.78e/ | *CCB1: Fb= -1.28/fc = -1.28/ | *PB4: Pb= -0.3668/hc= -0.2338/ |
| 9-1-685 | 13163 | 10/31/01 | 11/14/91 | 16/02/11 | | | 103: Po=-236 pp. | COB1: Po=-248/Ac=-1.15/ | |
| 888-1-9 | 13164 | 10/31/91 | 11/14/91 | 16/02/11 | | | | *CCB F0=-2.30/6=-1.00/ | |
| \$64-2-1 \$64-2-2 \$63-1-1 | 13165 13186 13114 | 16/16/01 16/16/01 16/16/01 | 16/1/11 16/1/11 16/1/11 | 16/02/11 16/02/11 | | | | *CCB4: Fb=-2:28 µg/ *CCB4: An=-1:48 µg/ *CCB7: An=-1:98 µg/ | |
| SOILS \$8LA-1-5 | 1,209.22 | 11/0/11 | 168189171 | 12/17-19/91 | ALL ICV MRs WITHIN CONTROL LIMITS | ALL OCY 48s WITHIN CONTROL LIMITS | NO INTERPERENCE DETECTED IN THE INITIAL CALERATION BLANKS | NO INTERPREDICE DEFECTED IN THE CONTINUING CALERATION | NO INTERPRENCE DETECTED IN THE PREPARATION BLANKS AT |
| 381A-1-5R | 120933 | 16/90/11 | 13/1641#91 | 1661-11/21 | (Hg=00-124 ALL OTHER METALS=50-110) | CHER METALS - 90-110 OTHER METALS - 90-110 EXCEPT: CCVs. As-3,9%, | AT CONCENTRATION OREATER THAN THE CLP CRDL | | CONCENTRATION OREATER THAN THE CLP CRDL |
| 181-2-5 | 966021 | 16/20/11 | 12/14&1891 | 12/17-19/91 | | COV Parilland | • | COST Per SIB/Tile - LOB Ag/ COST Per SIB/Tile - LOB Ag/ COST Per SIB/Tile - LOB Ag/ COST Per SIB/Tile - LOB Ag/ | Co = 1.5350/Fe = 5.5189/ Po = -0.2408/Afric = 2328/ No = 3.5708/Ti = -0.2508 mg/tg |
| SS1-2-3R | 120957 | 14/23/11 | 13/1621291 | 12/17-19/91 | | | | CORP. As = 1.08 µg/ CORP. As = 2.08 µg/ CORP. As = 2.08 µg/ CORP. As = 2.08 µg/ CORP. As = 2.09 µg/ CORP. As = 2.09 µg/ CORP. As = 2.09 µg/ CORP. As = 2.09 µg/ CORP. As = 2.09 µg/ CORP. As = 2.09 µg/ CORP. As = 2.09 µg/ CORP. As = 2.09 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. As = 2.00 µg/ CORP. | |
| \$B[A-3-4 | ¥56021 | 14/50/11 | 121641891 | 12/17-19/91 | | | | | |
| \$B1A-3-4R | 120955 | 16/50/11 | 12/1641891 | 12/17-1991 | | | | | |

| Equipment ort. | in the same | EB2-1 | ٧× | × × | E42-1 | EB2-1 | EB2-1 | | EB4-1 | EB4-1 | E84-1 | EFF-1 | E84-1 | <i>,</i> · | EB2-1 | FB2-1 | E162-1 | EB2-1 | E82~1 | |
|-------------------|--------------|------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------|---------------------------------------------|------------------------------------------------|-----------------------------------------|------------------------------------------------|------------------------------|-----------------------------|-------------|----------------------------------|------------|-----------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------|----------|--|
| Bauto | Results | | | | _ | | | _ | | | | | | | | | | | | |
| Field | Results | FB2-1 | ¥ | Y | FB2-1 | FB2 - 1 | FB1 | F84-1 | FB4-1 | 1-194-1 | PB41 | <u>-</u> 46 | 1-20- 1-20- | • | FB2-1 | FB 2 - 1 | FB2-1 | FB2-1 | FB2-1 | |
| Laboratory | Semple (LCS) | DATA NOT PROVIDED | | | | | | DATA NOT PROVIDED | | | | | | | DATA NOT PROVIDED | | | - | | |
| PRECISION | Sample | (MW1-8) ALL RPD WITHIN CONTROL LIMITS FOR SAMPLE AND | DUFLICATE CONCENTRATIONS GREATER THAN 5X THE CRID. | LIMIT OF (*) XXCRIL FOR SAMPLE OF DIEN ICATE CONCESSES (TONE | LESS THAN SX THE CRDL, EXCEPT: Al=26.9% | [MW2-018] MERCURY ALL RPDEWITHIN CONTROL | LIMITS FOR SAMPLE AND DUFLICATE CONCENTRATIONS | (\$B3-1-1) All RPDs Within CONTROL | LIMITS FOR SAMPLE AND DUPLICATE CONCENTRATIONS | (< 35 %) AND WITHIN CONTROL | OR DUPLICATE CONCENTRATIONS | Pagy 8% | | | SBIA-1-5 ALL RPD: WITHIN CONTROL | LIMITS FOR SAMPLE AND DUPLICATE CONCENTRATIONS GREATER THAN SX THE CRD. | (\$53 %) AND WITHIN CONTROL LIMIT OF (\$1)2XCRDL FOR SAMPLE OR DUPLICATE CONCENTRATIONS LESS THAN 5X THE CRDL, EXCEPT: | As = 50.0%. | | |
| ACCURACY | Sample | MW1-0] ALL SPINE SAMPLE RECOVERES WITHIN | CONTROL LIMITS (75-125%), EXCEPT: Sb=61.6% AND Sa=57.0% | | | SPIKE SAMPLE | NECOVERY WITHIN CONTROL LIMITS (75 – 125 %). | <u> </u> | RECOVERIES WITHIN CONTROL LIMITS (75-125) | Pb=-138.0% Se=68.0%, AND | K0%0=11 | | | | [SBIA-1-5] ALL SPINE SAMPLE | RECOVERIES WITHIN CONTROL LIMITS (75-12%) EXCEPT: \$9=39.1%, As=25.6%, | AND MB EXCON | | | |
| CPACE | Pinal | ALL SR. WERE BETWEEN 80-120% FOR ALL ELEMENTS | | | | | | ALL %Rs WERE BETWEEN 80-120% FOR ALL | ELEMENTS | | | | | | ALL %R: WERE BETWEEN 80-120% FOR ALL | ELEMENTS | | | | |
| SUPPLIE | Tottial | ALL %R; WERE HETWEEN 80-120% FOR ALL ELEMENTS | | | | | | RE HETWEEN R all | | | | | | | ALL %Rs WERE BETWEEN 80-120% FOR ALL | | | | | |
| Laboratory | Number | 120963 | 120962 | 120961 | 120959 | 120960 | 120958 | 13115 13116 | 13117 | 13162 | 13163 | 13184 | 13185 13186 13114 | | 120952 | 120953 | 120956 | 120957 | 120954 | |
| SAIC Sample | Number | 4-4 | EB2-1 | FB2-1 | MW2-01 | MW2-01R | MW1-01 | SOILS 8B4-1-1 8B4-1-2 | \$B4-1-6 \$B3-2-2 | SB3-2-1 | SB3-1-6 | \$B3-1-9 | \$B4-2-1 \$B4-2-2 \$B3-1-1 | SIGS | \$B1A-1-5 | SB1A-1-5R | SB1-2-5 | SBI-2-5R | SB1A-3-4 | |

| | Laboratory | Similificant | Date |
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| SAIC Sample Number | Identification Number | Sample Results | Validation Qualifiers |
| WATERS P-6 | 120963 | Al=42809/8b=14.6BN/As=24.4Bs=2320Bs=2.2BCs=419000 Cr=71.8Co=30.8B/Cs=73.7Ps=65100/Pb=38.1Ms=109000/ Ms=1360/Ni=65KS=284009s=1.0UnW/As=2.0Un/Ns=18500/ V=11.7Zs=212.1mA | Al=42800f(*)5b=14.6f(n,B/Be=2.2f(B)/Co=30.8f(B)/Hg=0.2U.f(HT)/So=1U.f(n)/Ag=2U.f(n) |
| EB2-1 | 120962 | Al=34.38-8b=14.0UN/Ca=223B/Fe=37.7BMg=52.9B/Mn=1.3B/ Se=1.0UN/Se=2.0UN/Se=77.2B_us/ | AI=34.3(MB, B.)5b=14Uf(N)Ca=223(MB,B)Fe=37.7(MB,B)Mg=52.9(MB,B) Mn=1.3/B/He=0.711/HT\Se=1U1/N\A==211/N\N=77.2(MB,B) |
| FB2-1 | 120961 | Al=41.48-8b=14.0UN/Ba=1.18Ca=249B/Fe=40.3BA/g=66.5B/ Mn=1.18Ca=1.0UN/As=2.0UN/N=12B.usf | Al=41.4(f/MB, B., 95b=14Uf(N)/Me=1.15(B)/Ca=249f(MB,B)/Fe=40.3(f/MB,B)/Mg=66.51(MM,B)/Mn=1.11/R)/He=0.31(f/MB,B)/Mg=66.51(MM,B)/Mn=1.11/R)/He=0.31(f/MB,B)/Mg=66.51(MM,B)/Mn=1.11/R)/He=0.31(f/MB,B)/Mg=66.51(MM,B)/Mn=1.11/R)/He=0.31(f/MB,B)/Mg=66.51(MM,B)/Mn=1.11/R)/He=0.31(f/MB,B)/Mg=66.51(MM,B)/Mn=1.11/R)/He=0.31(f/MB,B)/Mg=66.51(MM,B)/Mn=1.11/R)/He=0.31(f/MB,B)/Mg=66.51(MM,B)/Mn=1.11/R)/He=0.31(f/MB,B)/Mg=66.51(MM,B)/Mn=1.11/R)/He=0.31(f/MB,B)/Mg=66.51(MM,B)/Mn=1.11/R)/He=0.31(f/MB,B)/Mg=66.51(MM,B)/Mn=1.11/R)/He=0.31(f/MB,B)/Mg=66.51(MM,B)/Mn=1.11/R)/He=0.31(f/MB,B)/Mg=66.51(MM,B)/Mn=1.11/R)/He=0.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/Mg=60.31(f/MB,B)/M |
| MW2-01 | 120959 | A=3660F78=14.0UN/A=24.0R=313Re=1.5BCn=379000/ C=69.1/Co=27.9B/Cu=62.3Re=587007b=43.4Mg=118000/ Mn=1270Ni=78.5K=11700s=0.0UNWAg=2.0UNNA=22200/ Tl=1.0UW/A=79.1Zn=179.4s1 | Al=30600(°)26=14UJ(N)Be=1.0J(B)Co=27.3J(B)Hg=0.2UJ(HT)Ae=1UJ(N)Ag=2UJ(N) |
| MW2-01R | 120960 | | Al=2570Q(*)Sb=171(N,B)/Be=1.51(B)/Co=24.91(B)/Hg=0.2UJ(HT)/Se=1UJ(N)/Ag=2UJ(N) |
| MW1-01 | 120958 | A=29400°78=4.28N/A=42.4/Ba=369/Ba=1.5B/Ca=324000/ Cr=60.9/Co=25.4B/Cu=79.6/Fa=36000/Fb=49.0Mg=66100/ Ma=1140Ni=74.1/K=11400/So=1.0UNW/Ag=2.0UN/Na=10400/ V=79.1/Za=221 µg/ | Al=2940Q°)3b=14.2I(N,B)/Be=1.8J(B)/Co=25.4J(B)/Hg=0.2UJ(HT)/Se=1UJ(N)/Ag=2UJ(N) |
| SOILS SB4-1-1 | 13115 | As=3.6GBN/Pb=12.10N*Se=0.23UN/TI=0.33UNW mg/kg | A==3.6[N)Pb=121R(N)&==0.23UJ(N)T1=0.33UJ(N) |
| SB4-1-2 | 13116 | As=7.16N/Pb=10.30N*Se=0.23UN/TI=0.34UNW mg/kg | As=7.13(N)78=10.3R(N)50=0.23UJ(N)71=0.34UJ(N) |
| SB3-1-0 | 13161 | AB=4,00XN/t0=10,50X - 59=-0,40X/11=0,50XV - BJEE Sb=4,40XN/Ax=3,208N/B=0,01B(0=2,70X - 23,10X) - 24,30/ B=-4,40XN/Ax=3,44,00x - 0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0,42XN/T=0 | /w==m/n/r/c==tu-n(r/ye==tu-nu-1/r/ye==0.81/B)/r/s==3.5U/N)/m=0.35U/N) |
| SB3-2-1 | 13182 | S0=4,10UN/As=4,50V/R0=0,4,50CM,11=0,5,50CM V/Zd=0,0,0 MBLE Sb=4,10UN/As=4,50V/R0=0,56B/Cd=1,20VC=15,30/Cu=16,10/ Pb=1,4,50VRA=0,1,00VC=0,20VC=1,00V/Ca=6,4,0 | 8b=4.1UJ(N)/As=4.M(N)/Bs=0.58/(B)/Cd=2J(FB)/Cu=18.1J(FB)/Fb=3.6R(N) S==0.2411/N)/Tn=0.3411/N) |
| SB3-1-6 | 13183 | Sb=4,00UN/As=5,108/Be=0.56BCd=2,00Cn=16,30Cn=23,90/ sb=4,00UN/As=5,100Rn=0.34TNT-0.44TNW/Z=64,10 ==0.44 | SpeedU(N)/4=5.13(N)/50(B)/Cd = 23(FB)/Fb=5.5R(N)/ SpeedU(N)/FpeedU(N)/FpeedU(B)/Cd = 23(FB)/Fb=5.5R(N)/50(FF)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU(N)/FpeedU |
| SB3~1~9 | 13164 | Sb=3.90UN/A=5.90N/Be=0.24B/Cd=1.50C=6.50/Cu=18.00/ Sb=3.90UN/A=5.90N/Be=0.24B/Cd=1.50C=6.50/Cu=18.00/ | Sb=30U(1/N/A=50f(N)Sb=0.24(B)/Cd=1.51(FB)/Cu=18U(FB)/Fb=5.8R(N) S==0.2111(N).T==0.211(B) |
| SB4-2-1 | 13165 | As=6.50N/Pb=10.50N*/Sb=0.22UN/II=0.32UNW mg/kg As=6.40N/Pb=10.00N*/Sb=0.32UN/II=0.32UNW mg/kg As=6.40N/Pb=10.40N*/Sb=0.34UN/II=0.34UNW mg/kg | 54=05107(1%) 11-05-107(1) 54=651(1/1) 11-05-107(1) 11-05-107(1) 5=651(1/1) 11-05-107(1) 11-05-107(1) 5=651(1/1) 11-05-107(1) 11-05-107(1) |
| SB3-1-1 | 13114 | Sb=3.80UN/As=12.60WBe=0.34B/Cd=1.804Cr=9.40/Cu=26.20/ Pb=11.30W*Nl=24.10Se=0.21UNW/T1=0.31UNW/Zs=75.70 mg/kg | |
| SOILS SBIA-1-5 | 120952 | Ai=11500Sb=33UN/As=10.6N*/Rs=63.6/Rs=0.60R/Cs=79200 Cr=19.5/Co=10.0R/Cs=47.6/Rs=24500*/Rb=11.4M.g=18000/ | \$b=\$3UJ(N)/As=10.6R(N)0.6J(B)/Co=10J(B)/Mn=370J(N)/Hg=0.12UJ(HT)/Ns=15GJ(FR.B) |
| \$B1A-1-5R | 120953 | Ma=370N/N=30.4/K=2890Na=156BV=27.8/Za=108° mg/kg A=160035b=3.2/UN/A=9.0/W7B=92.2/Be=0.6180/a=0.34B/ Ca=78900C=19.0/Co=12.2/Ca=25.0/Fe=23.430°/Fb=10.5/ Mg=17700Mn=420N/N=30.2/K=27608o=0.23/UW/Na=146B/ | Sb=3.2UJ(N)/4a=9R(N)/Be=0.61J(B)/Cd=0.34J(B)/Mn=420J(N)/Hg=0.11UJ(HT)/Nn=146J(PR,B)/ T1=0.24J(MB,B) |
| SBI 2 5 | 120936 | 11=0.748V-25.22C=10.00 mg/kg A=685.08b=3.38W/A=7.8N°.78e=75.79e=0.428/Cd=0.458/ Ca=79500Cy=16.1/Co=9.78/Cu=28.2/Fe=2000°/Pb=10.9/ Mg=1700Ma=40.1Wni=29.3/K=2210/Na=1698/Ti=0.268/ V=70.477.777 me/ks | Sb=33UJ(N)/As=7.8R(N)/Bs=0.42I(B)/Cd=0.45I(B)/Co=9.7J(B)/Mn=401J(N)/Hg=0.10UJ(HT)/ Na=169J(FB,B)/T1=0.2d(MB,B) |
| 8B1-2-5R | 120957 | A=95208b=35UN/A=6.7N*PB=79.BPe=0.46B;Cd=0.73B/ Cn=66700°Cr=17.3/Co=9.9B/Cu=23.0Fe=20500*/Fb=10.7/ Mg=16400Mu=420V(Ni=30.6/K=2300/Na=163BV=21.6/ Tn=67.7*********************************** | Sb=3.3U3(N)/As=6.7R(N)/Bs=0.46I(B)/Cd=0.73I(B)/Co=9.9I(B)/Mn=420I(N)/Hg=0.11U3(HT)/ Nn=165I(FB,B) |
| SB1A-3-4 | 120954 | A=1040035b=3.UN/As=5.7N°/Bs=88.0/Bs=0.45B/Cd=0.71B/ Ca=83700Cc=19.3/Co=10.0/BCu=43.7/Fs=19900°/Fb=13.8/ Mg=18700Mn=3.71NN1=9.0/Ks=2530So=0.42B/Ns=165B/ T1=11BV=35.772n=95.4 make | Sb=3.3UJ(N)/As=5.7R(N)/Bs=0.45J(B)/Cd=0.71J(B)/Co=10J(B)/Mn=371J(N)/Hg=0.10UJ(HT)/ So=0.42J(B)/Ns=165J(FB,B)/Tl=1.1J(M,B,B) |
| SBIA-3-4R | 120955 | | Sb=3.2U,(N)/As=11.8R(N)/Bs=0.54J(B)/Cd=0.46J(B)/Co=11.2J(B)Mn=487J(N)/Hg=0.10UJ(HT) Nn=165J(FB,B) |

Footnotes to Tables F-19a through F-19f. Priority Pollutant Metals Data Validation Worksheets Indiana Air National Guard Base, Fort Wayne, Indiana

CLP holding time for metals is 6 months, except Hg, which will be analyzed 28 days from sample collection.

Control limits for initial calibrations:

Percent recoveries (%R) must be greater than 90.0% and less than 110.0% for all metals except mercury (80-120 %R).

Control limits for continuing calibrations:

Percent recoveries (%R) must be greater than 90.0% and less than 110.0% for all metals exept mercury (80-120 %R) Control limits for ICP interference check sample (ICS) are 80-120 percent recoveries for all elements.

Blank spike control limits are 80-120 percent recovery.

Spike sample control limits are 75-125% for all elements for analytes.

RPD control limits must not exceed 20 percent for water sample and 35 percent for soil sample.

Laboratory control sample (LCS) control limits are 80-120 percent recovery.

• - Duplicate analysis outside control limits.

E - Concentration was estimated due to the presence of interferents.

B - Concentration is greater than or equal to the instrument detection limit (IDL), but less

than the contract required detection limit (CRDL)

S - The reported value was determined by the method of standard additions (MSA). N - Spiked sample recovery outside control limits.

U - Analyte was analyzed but not detected.

M - Duplicate injection precision not met.

W - Post - digestion spike for furnace AA analysis is outside control limits (85-115%), while sampling absorbance is less than 50% of spike absorbance. - Correlation coefficient for MSA is less than 0.995. Continuing Calibration Verification — At a frequency of 10 percent and every 2 hours, a CCV standard was analyzed. Following the standard analysis, percent recovery values were calculated for each element to ensure calibration accuracy during each analysis run. Priority pollutant metals CCV criteria requirements included 80 to 120 percent for mercury and 90 to 110 percent for all other elements, as specified by the DOE/HWP-65/R1. Based on an evaluation of the initial calibrations conducted, all percent recovery values were within control limits.

Method Blanks — One method blank analysis was conducted with each batch of environmental samples analyzed for priority pollutant metals. Each method blank was evaluated for interferents that might potentially interfere with accurate quantitation of a target element. According to CLP criteria, a laboratory blank may not contain any target element concentration greater than the CRDL. Based on an evaluation of all method blanks (i.e., initial calibration blanks [ICBs], continuing calibration blanks [CCBs], and preparation blanks [PBs]) analyzed by the NET Laboratory, no interferents were detected in concentrations greater than the absolute CRDL value. However, numerous interferents were detected at concentrations greater than the IDL and less than the CRDL in many laboratory method blanks. All elements detected in the laboratory method blanks are presented in Table F-19. Data validation qualifiers (i.e., "J[MB]") were applied to all elements detected in the environmental samples in concentrations less than five times that detected in an associated laboratory method blank. All results are presented in Tables F-19 and in the data presentation tables located in Appendix E.

Interference Check Sample (ICS) Analysis — To verify ICAP interelement and background correction factors, one ICS was analyzed at the beginning and end of each sample analysis run, or twice per 8-hour work period, whichever was more frequent. Each element in the ICS solution AB must be recovered within 20 percent of the true concentration of that element in the ICS solution AB. ICS criteria requirements are described in the SOW prepared for the Indiana ANGB SI. Based on an evaluation of the interference check sample analyses conducted for priority pollutant metals in soil and groundwater, all recovery criteria were within control limits.

Spiked Sample Analysis — Spiked sample analyses were conducted to assess the accuracy of the laboratory and to evaluate the matrix effect of the sample upon the analytical methodology based upon the percent recovery of each element. Accuracy was expressed as the percent recovery of the spiked compounds. The control limits for percent recoveries in soil and water samples were described in the DOE/HWP-65/R1. Spiked samples were evaluated to verify that 1 spiked sample analysis was conducted for each 20 environmental samples received by the laboratory (excluding dilutions and reanalyses conducted), that these analyses were conducted on environmental samples only, and that the recovery results did not indicate systematic laboratory control problems. Tables F-20 and F-21 summarizes the matrix spike results for soil and groundwater samples.

Six spiked sample analyses (i.e., SB4-01-02, SB4-05-02, BG2-1-1, SB1A-3-3, SB3-1-1, and SB1A-1-5) were conducted using soil samples collected during the Indiana ANGB SI. All percent recoveries were within the control limits, except antimony (0 percent) and arsenic (131 percent) in SB4-01-02; antimony (0 percent) and arsenic (165.4 percent) in SB4-05-02; antimony (42.8 percent), copper (51.6 percent), manganese (305.6 percent), and lead (39.5 percent) in BG2-1-1; antimony (59.4 percent) and selenium (59.6 percent) in SB1A-3-3; antimony (37.4 percent), arsenic (135.8 percent), lead (-138 percent), selenium (68 percent), and thallium (59.6 percent) in SB3-1-1; antimony (39.1 percent), arsenic (25.6 percent), and manganese (34.6 percent) in SB1A-1-5.

Antimony, arsenic, and lead in selected soil samples have been rejected (i.e., all undetected and detected results were presented in the data presentation tables as "R[N]") to indicate that the percent recoveries in the associated spike sample analyses were less than 30 percent. Antimony, copper, lead, manganese, selenium, and thallium results in selected samples have been estimated (i.e., all undetected results and detected values were presented in the data presentation tables as "UJ[N]" and "J[N]", respectively) to indicate that the percent recoveries in the associated spike sample analyses were less than 75 percent, but greater than 30 percent. Arsenic and manganese results in selected samples have been estimated (i.e., all detected results were presented in the data presentation tables as "J[N]") to indicate that the percent recoveries

TABLEF-20. PRIORITY POLLUANT METALS MATRIX SPIKE AND LABORATORY DUPLICATE QC SUMMARY: GROUNDWATER INDIANA

| PRECISION | R NUMBER NUMBER LAB. DUPLICATE RANGE RPD WITHIN OUTSIDE TOTAL No. RANGE RPD WITHIN OUTSIDE TOTAL No. RANGE RPD LIMITS CONTROL LIMITS CONTROL LIMITS CONTROL LIMITS | 2 0 2 (4.5-26.9) | 3 (NC-673) | 3 (00-14.5) | 125) 2 (0.3-1.9) 20 2 (0.1-1.9) 20 4 (0.1-1.9) 20 4 0 | 4 (NC-42.2) | NR 2 (0.1-2.8) | 4 (3.1-200) | 4 0 2 (3.4-6) | 4 (2–58.8) | 2 (1.7-5) 20 2 | (0.7–18.4) | NR 2 (0.3-1.2) | 2 0 0.3-0.6) | 3 NC | 4 (4.2-7.6) 20 4 | NR | 1 2 3 (NC-200) 20 3 | 4 NC 20 4 | NR 2 (0.7-0.9) | A NC 20 | 2 0 2 (7.1–32.2) 20 2 | |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|---------------|-------------------------------------------------------|-------------|----------------|--------------|---------------|-------------|----------------|--------------|----------------|---------------|--------------|------------------|-----------|---------------------|-------------|----------------|--------------|-----------------------|------|
| | NUMBER OUTSIDE CONTROL LIMITS | 0 | - | 0 6 | | 0 | | • | | • | | | | | • | _ | | | | | | 0 | • |
| ACCURACY | %R CONTROL LIMITS | _ | | _ | 8.2) (75–125) 05) (75–125) | | | _ | (75–125) | (75–125) | (75–125) | (75–125) | | (75–125) | (75–125) | (75–125) | • | (75–125) | (75–125) | • | (75–125) | | |
| | MATRIX SPIKE PERCENT TOTAL No. RECOVERY ANALYSES RANGES | 2 [(-30)-45.7] | (61.6–93.9) | 3 (88.1–104.1 | 2 (85.4–88.2) 4 (87.5–105) | (6:-100) | ž | 4 (80.6-197) | 2 (81.9-88.6) | (86.1–95.2) | 2 (52.8–192.5) | 5 (93–107.2) | ZZ. | 2 (90.9–91.1) | 3 (91.6–115) | 4 (82.4–98.8) | ZZ. | 3 (43.5–104.6) | 4 (74.9–92) | ž | (83.1–115.9) | (82.4-90.1) | 1000 |
| | PARAMETER | Auminum | Antimony | Arsenic | Berlin | Cadmium | Calcium | Chromium | Coperi | Copper | Iron | Lead | Magnesium | Manganese | Mercury | Zckel | Potassium | Selenium | Silver | Sodium | Thellium | Vanadium | 7 |

MATRIX SPIKE AND DUPLICATE ANALYSES PERFORMED ON SAMPLES: MW4-02 [14358] (LEAD ONLY), MW4-02, MW1-02 [119630], MW1-02 (ARSENIC, LEAD, AND SELENTUM), MW1-01, MW2-01R (MERCURY ONLY) AND MW2-01.

NC-NOT CALCULABLE (SAMPLE AND DUPLICATE RESULTS NON-DETECTED). NR-ANALYSIS NOT REQUIRED

TABLEF-21. PRIORITY POLLUANT METALS MATRIX SPIKE AND LABORATORY DUPLICATE OC SUMMARY: SOIL/SEDIMENT INDIANA ANGBFORT WAYNE, INDIANA

| | | ACG | ACCURACY | | | | | PRECISION | NO | |
|-----------|---------------------------------------|-------------------------------|-------------------------|------------------------------------|-------------------------------------|-----------------------------------------|---------------|-----------|------------------------------------|-------------------------------------|
| PARAMETER | MATRIX SPIKE TOTAL No. ANALYSES | PERCENT RECOVERY RANGES | %R CONTROL LIMITS | NUMBER WITHIN CONTROL LIMITS | NUMBER OUTSIDE CONTROL LIMITS | LAB. DUPLICATE TOTAL No. ANALYSES | RANGE | RPD | NUMBER WITHIN CONTROL LIMITS | NUMBER OUTSIDE CONTROL LIMITS |
| Auminum | AN AN | | | A.R. | A.R. | 3 | (0.3-49.6) | 35 | 8 | 0 |
| Antimony | • | (0-59.4) | (75-125) | • | 9 | • | (14.5 - 37.6) | 35 | • | 0 |
| Arsenic | • | (25.6-165.4) | (75–125) | 7 | * | • | (2-52.2) | 35 | vo | _ |
| Barium | 60 | (95-104) | (75-125) | 60 | • | e | (0.0-45) | 35 | 80 | • |
| Beryllium | • | (90.8-104.2) | (75-125) | • | • | 9 | (0.5-20.9) | 35 | • | • |
| Cadmium | • | (85-108.7) | (75-125) | • | • | 9 | (4.4-84.7) | 35 | • | • |
| Calcium | XX | | | ¥ | Ę | • | (0.2-200) | 35 | | • |
| Chromium | • | (84.7-103.9) | (75–125) | • | • | • | (0.2-89.6) | 35 | • | • |
| Cobalt | | (87.1-101.5) | (75-125) | 60 | 0 | | (0.1-200) | 35 | m | • |
| Copper | 9 | (51.6-112.5) | (75–125) | × | _ | • | (1.1-88.9) | 35 | 'n | _ |
| Iron | ž | | | ž | ¥ | 3 | (0.4-30.6) | 35 | • | • |
| Lead | - | [(-138)-315.8)] | (75–125) | • | _ | 7 | (1.2-93.8) | 35 | ٧, | 7 |
| Magnesium | NR. | : | | ž | £ | 8 | (1.8-57.8) | 35 | • | 0 |
| Manganese | 6 | (34.6-305.9) | (75–125) | | ~ | 60 | (0.1-90.1) | 38 | 7 | _ |
| Mercury | • | (91.4-124.1) | (75-125) | • | 0 | • | S | 35 | • | • |
| Neka | • | (81.9-100.7) | (75–125) | • | 0 | • | (0.1-200) | 35 | • | • |
| Potassium | ž | | | ž | ž | m | (1.3-95.2) | 35 | | 0 |
| Selenium | 9 | (59.6-93) | (75-125) | → | 7 | • | (0-1.1) | 35 | • | 0 |
| Silver | 9 | (81.2-102) | (75–125) | • | 0 | • | (0-11.5) | 35 | • | 0 |
| Sodium | £ | , | | ž | XX | 60 | (0.4-71.1) | 35 | 60 | 0 |
| Thalium | • | (59.6-104.7) | (75-125) | * | | • | Ž | 35 | • | 0 |
| Vanadium | | (86.2-100.9) | (75–125) | •• | • | 60 | (1-31.3) | 3\$ | m | 0 |
| Zinc | • | (82.4-97.9) | (75–125) | ۰ | • | • | (0.7 - 133.5) | 35 | v o | 0 |
| | 1 | | | | | | | | | |

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE PERFORMED ON SAMPLES SB4-01-02, SB4-05-02, SED-2 (LEAD ONLY), BG2-1-1, SB1A-3-3, SB3-1-1, AND SB1A-1-5. NC-NOT CALCULABLE (SAMPLE AND DUPLICATE RESULTS NON-DETECTED). NR-ANALYSIS NOT REQUIRED

for spike sample analyses were greater than 125 percent. These results are presented in Tables F-20 and F-21 and in the data presentation tables located in Appendix E.

One matrix spike analysis (i.e., SED-2 [lead only]) was conducted using the sediment sample collected at the Indiana ANGB. All recoveries were within the control limits.

Seven matrix spike analyses (i.e., MW1-02, MW2-01, MW4-02, MW4-02 [14358] [lead only], MW1-02 [119630], MW1-01, and MW2-01R [mercury only]) were conducted using the groundwater samples collected at the Indiana ANGB. All recoveries were within the control limits, except selenium (43.5 percent) in MW1-02 (119630); antimony (61.6 percent) and selenium (57 percent) in MW1-01. Antimony and selenium in selected samples have been estimated (i.e., all undetected and detected values were presented in the data presentation tables as "UJ[N]" and "J[N]", respectively) to indicate that the percent recoveries in the associated spike sample analyses were less than 75 percent, but greater than 30 percent. These results are presented in Tables F-20 and F-21 and in the data presentation tables located in Appendix E.

Duplicate Sample Analyses — Duplicate samples were analyzed and the RPD value of each detected element was calculated. A control limit of 35 percent RPD in soil samples and a control limit of 20 percent RPD in water samples were used for original and duplicate sample values greater or equal to 5 times the CRDL. A control limit of plus or minus 2 times the CRDL in soil samples and plus or minus the CRDL in water samples were used for original samples or duplicate values less than 5 times the CRDL. Duplicate samples were evaluated to verify that 1 duplicate sample analysis was conducted for each 20 environmental samples received by the laboratory (excluding dilutions and reanalyses conducted), that these analyses were conducted on environmental samples only, and that the difference results did not indicate systematic laboratory control problems. Precision was expressed as the RPD of the concentrations of the elements detected in the duplicate samples. Duplicate soil and groundwater sample results are summarized in Tables F-20 and F-21.

Six duplicate sample analyses (i.e., SB4-01-02, SB4-05-02, BG2-1-1, SB1A-3-3, SB3-1-1, and SB1A-1-5) were conducted using soil samples collected during the Indiana ANGB

SI. All criteria were within the control limits, except copper (88.9 percent) and manganese (67.3 percent) in BG2-1-1, arsenic (52.2 percent) in SB1A-3-3, lead (93.8 percent) in SB3-1-1; and arsenic (56 percent) in SB1A-1-5. As a result, data validation qualifiers (i.e., presented as "J[*]") were applied to the copper, manganese, lead, and arsenic in selected samples associated with these duplicate samples. These results are presented in Tables F-20 and F-21 and in the data presentation tables located in Appendix E.

One duplicate sample analysis (i.e., SED-2 [lead only]) was conducted using the sediment samples collected at the Indiana ANGB. One lead RPD value was outside the control limits (35.6 percent), and as a result, data validation qualifiers were applied to all associated sample results.

Seven duplicate sample analyses (i.e., MW1-02, MW2-01, MW4-02, MW4-02 [14358], MW1-02 [119630], MW1-01, MW2-01R [mercury only]) were conducted using groundwater samples collected at the Indiana ANGB. All RPD values were within the control limits.

Laboratory Check Sample (LCS) Analysis — One LCS analysis was conducted with each batch of soil and groundwater samples analyzed by the NET Laboratory, as required by DOE/HWP-65/R1. The recovery results of each LCS analyzed were evaluated against a 80 to 120 percent control limit for all elements. Based on an evaluation of the LCS analyses conducted, all acceptance criteria were met.

Significant Qualified Sample Results — Data validation qualifiers have been applied to selected environmental sample results to indicate that these results were considered estimated due to holding time, method blank interference, matrix spike recoveries, duplicate sample RPD values, and detection limit considerations (i.e., values reported at concentrations less than the CRDL but greater than the instrument detection limit [IDL] and qualified by the laboratory ["B"]). These qualifiers were applied to all data presented in the data summary tables within the SI report text and in the comprehensive data presentation tables in Appendix E, in addition to the data validation worksheets previously cited.

F.3.3.2 Total Petroleum Hydrocarbon (TPH) Analysis (EPA Method 3550/418.1) and Oil and Grease

Seventy soil samples, 2 sediment samples, 12 groundwater samples, and 13 field QC (i.e., field blank and equipment blank) were collected during the Indiana ANGB SI and were analyzed for TPH analysis by NET Laboratory using EPA Method 3550/418.1. Two groundwater samples (i.e., MW2-01 and MW2-01R), 5 soil samples (i.e., SB3-1-1, SB3-2-2, SB3-2-1, SB3-1-6, and SB3-1-9), and 4 field QC blanks (i.e., EB3-1, EB2-1, FB2-1, and FB4-1) were analyzed for oil and grease using EPA Method 3550/413.1. Eight soil samples, 4 groundwater samples, and 2 field QC (i.e., EB4-1 and FB4-1) were collected and analyzed for TPH as diesel and motor oil. Data quality was evaluated using the guidelines and control limit specified for holding times, instrument calibration, method blank, laboratory control sample, and MS/MSDs. The TPH (as diesel and motor oil) data was evaluated for holding time only. A presentation of the significant qualified sample results follows the laboratory QC results discussion. The data validation worksheets are presented in Tables F-22.

Holding Times — The NET Laboratory was required to meet a 28-day holding time for water and soil samples collected for TPH, oil and grease, and TPH as diesel and motor oil. Based on evaluation of all environmental samples and field QC blanks extracted and analyzed for TPH, oil and grease, and TPH as diesel and motor oil all holding time criteria were met, except in FB-1 (3 days), FB-2 (3 days), EW-1 (3 days), EW-3 (2 days), SB2-01-01 (8 days), SB4-01-01 (1 day), SB4-01-02 (1 day), SB4-02-01 (3 days), SB4-02-02 (1 day), SB4-03-01 (3 days), SB4-03-02 (1 day), SB4-04-04 (1 day), SB4-04-02 (1 day), SB4-05-01 (3 days), SB4-05-02 (1 day), SD4-01 (2 days), and SD4-02 (2 days). The TPH results for the samples listed above were estimated to indicate the exceeded holding time (i.e., all undetected value will be presented in the comprehensive data tables as "UJ[HT]") and all detected value will be presented in the comprehensive data tables as "J[HT]").

Instrument Calibration — Calibration of the infrared spectrophotometer was established by injecting a blank and five standards to ensure that the instrument is capable of producing acceptable quantitative data. The NET Laboratory was required by DOE/HWP-65/R1 to conduct an initial calibration every 12 hours and to ensure that the correlation coefficient for the

| Correlation | Coefficient | 7866 7866 7866 7866 7866 7866 7866 7866 | 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 TO 7666 T | 9466 () 9466 () 9466 () 9466 () 9466 () 9466 () 9466 () 9466 () 9466 () 9466 () 9466 () 9466 () 9466 () 9466 () | 786.0 786.0 786.0 786.0 786.0 786.0 786.0 786.0 786.0 786.0 786.0 786.0 786.0 786.0 786.0 786.0 786.0 786.0 | 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 11065 |
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| Date 5-Point | Calibration | 0972890 0972890 0972890 0972890 0972890 0972890 | 10/1290 10/1290 10/1290 10/1290 10/1290 10/1290 10/1290 | 942599 942599 942599 942599 942599 942599 942599 942599 942599 | 001100 001100 001100 001100 001100 001100 001100 001100 001100 001100 001100 001100 001100 001100 | 05-05-05-05-05-05-05-05-05-05-05-05-05-0 |
| Blank | Analysis | NO INTERPENCE DETECTED | NO INTERPERENCE DETECTED | NO INTERPRENCE DETECTED | NO INTERFERENCE DETECTED | NO INTENFERENCE DETECTED |
| PRECISION | Sample | DATA NOT PROVIDED | DATA NOT PROVIDED | (SEZ-0)-19 RECOVERY VALUE (75-1284) AND RPD VALUE (= 35) WITHIN CONTROL LIMITS | (SEE 5B2-01-19) | (61 – 10 – 285 RES.) |
| Spike | Sample | DATA NOT PROVIDED | DATA NOT PROVIDED | <u>(第2-01-19</u> RECOVERY VALUE WITHIN LIMITS (78-1284) | (See 522-01-19) | (SEE SEC-01-19) |
| Laboratory | Sample(LCS) | MRB 1859 ALL PERCENT DATA NOT PROVIDED RECOVERIES WITHIN CONTROL LIMITS (80-120%) | <u>MBE 113 </u> ALL PERCENT DATA NOT PROVIDED RECOVERIES WITHIN CONTROL LIMITS (80-120%) | MEST TO ALL PERCENT CONTROL LIMITS (75-125%) | MESSIVENT ALL PERCENT (SECOVERIES WITHIN CONTROL LIMITS (35-122%) | MES 193) ALL PENCENT RECOVERIES WITHIN CONTROL LIMITS (75-12%) |
| Holding | - 1 | NA 31 DAYS 31 DAYS 31 DAYS 30 DAYS 28 DAYS 17 DAYS 17 DAYS | NA 28DAYS 28DAYS 28DAYS 28DAYS 27DAYS 27DAYS 26DAYS 26DAYS 26DAYS | NA 29 DAYS 29 DAYS 28 DAYS 28 DAYS 28 DAYS 27 DAYS 27 DAYS 27 DAYS 27 DAYS 27 DAYS 27 DAYS | NA 31 DAYS 31 DAYS 31 DAYS 32 DAYS 32 DAYS 32 DAYS 32 DAYS 32 DAYS 32 DAYS 32 DAYS 33 DAYS | NA 30DAYS 30DAYS 22DAYS 22DAYS |
| Date | Analyzed | 0972490 0972490 0972490 0972490 0972490 0972490 | 10/12/90 10/12/90 10/12/90 10/12/90 10/12/90 10/12/90 10/12/90 | 97.2599 97.2599 97.2599 97.2599 97.2599 97.2599 97.2599 97.2599 97.2599 97.2599 | 09/20/90 09/20/90 09/20/90 09/20/90 09/20/90 09/20/90 09/20/90 09/20/90 09/20/90 09/20/90 09/20/90 09/20/90 09/20/90 | 09/30/90 09/30/90 09/30/90 09/30/90 |
| Date | Extracted | 09/24/90 09/24/90 09/24/90 09/24/90 09/24/90 09/24/90 09/24/90 | 10/09/90 10/09/90 10/09/90 10/09/90 10/09/90 10/09/90 10/09/90 | 04/2/50 04/2/50 04/2/50 04/2/50 04/2/50 04/2/50 04/2/50 04/2/50 04/2/50 04/2/50 | 97.279 99.279 99.279 99.279 99.279 99.279 99.279 99.279 99.279 | 09/22/90 09/22/90 09/22/90 09/22/90 |
| Date | Collected | NA 08/28/50 08/28/50 08/28/90 08/11/90 09/11/90 | NA 09/14/90 09/14/90 09/14/90 09/14/90 09/15/90 09/15/90 09/16/90 | NA 08/2790 08/2790 08/2890 08/2890 08/2890 08/2890 08/2890 08/2890 08/2890 08/2890 08/2890 | NA 08/3/9/9 08/3/9/9 08/3/9/9 08/3/9/9 08/3/9/9 08/3/9/9 08/3/9/9 08/3/9/9 08/3/9/9 08/3/9/9 08/3/9/9 08/3/9/9 | NA 08/31/90 08/31/90 09/08/90 |
| Laboratory Identification | Number | MEN 185 90021709 90021709 90021008 90022000 90022000 | MB213 9002401 9002401 9002401 90025102 90025103 90025104 90025104 | MB179 90021701 90021703 90021703 90021704 90021706 90021706 90021706 90021801 90021801 90021801 90021801 90021801 90021801 90021801 90021801 90021801 90021801 90021801 | MB191 9002200 9002201 9002200 9002200 9002200 9002200 9002200 9002201 9002211 9002211 | MB195 90022402 90022403 90023601 90023602 |
| SAIC Semple | Number | WATIEKS WETHOD BLANK PB-1 IB-2 EW-1 EW-5 FW-3 NW4-2 | METHOD BLANK P-2 EW-07 MW2-01 MW1-01 WW1-01 EW-08 EW-08 EW-09 F-6 HT-01 | SOLL 8 METHOD BLANK 881-01-12 581-02-02 581-03-03 581-03-03 581-03-03 581-03-03 581-03-03 581-03-03 581-03-03 581-03-03 581-03-03 581-03-03 581-03-03 582-01-19 582-01-19 582-01-19 582-01-19 582-01-19 582-01-19 582-01-19 | SOILS NETHON BLANK SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC-0-1 SEC | SOILS METHOD BLANK SD4-01 SD4-02 SB1-04-01 SB1-04-02 |

| March Sample | | Laboratory | Post - run | Red | Equipment | Significant | Data |
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| Mail | SAIC Sample Number | Identification Number | Check Point | EMARK Analyzia | Analyzia | Sample Results | |
| Mail | WATERS | | | | | | |
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| OCCUSATION 6.6% FPB—03 EW—66 Name Descended 000206801 6.6% FPB—03 EW—67 None Descended 00020610 6.6% FPB—03 EW—67 None Descended 00020110 6.6% FPB—01 EW—67 None Descended 00020110 6.6% FPB—01 EW—67 None Descended 00020110 6.6% FPB—01 EW—67 None Descended 00020110 6.6% FPB—01 EW—67 None Descended 00020110 6.6% FPB—01 EW—67 None Descended 00020110 6.6% FPB—01 EW—67 None Descended 00020110 6.6% FPB—01 EW—67 None Descended <td>RETHOD BLANK</td> <td>MB213</td> <td>8,6%</td> <td>V.</td> <td>×</td> <td>None Detected</td> <td></td> | RETHOD BLANK | MB213 | 8 ,6% | V. | × | None Detected | |
| WA | -2 | 90024801 | 8.6% | FB-03 | EW-06 | None Detected | 1UJ(HT) |
| 90023001 6.5% FB-03 EW-0409 Name Descend 90023102 6.5% FB-03 EW-0409 Name Descend 90023102 6.5% FB-03 EW-0409 Name Descend 90023103 6.5% FB-03 FW-0409 Name Descend 90023104 6.5% FB-03 FW-0409 Name Descend 90023105 6.5% FB-0102 RW-0409 Name Descend 90023105 6.5% FB-0102 RW-0102 Name Descend 90023107 O% FB-0102 RW-0102 Name Descend 9002107 O% FB-0102 RW-0303 <t< td=""><td>W-07</td><td>90024901</td><td>8.6%</td><td>YN </td><td>ž</td><td>None Detected</td><td>None Applied</td></t<> | W-07 | 90024901 | 8.6% | YN | ž | None Detected | None Applied |
| WINT MB179 6.6% FB—01 EW—04,—09 Name Description 90025105 6.6% FB—10 EW—04,—09 Name Description 90025105 6.6% FB—10 EW—04,—09 Name Description 90025106 6.6% FB—10 EW—04,—09 Name Description 90025107 6.6% FB—10 EW—04,—09 Name Description 90025107 6.6% FB—11,—12 EW—01,—12 Name Description 90025107 6.6% FB—01,—12 EW—01,—12 Name Description 90025107 6.6% FB—01,—12 EW—01,—12 Name Description 90025108 6.6% FB—01,—12 EW—01,—12 Name Description 90025109 6.6% FB—01,—12 EW—01,—12 Name Description 9002109 6.6% FB—01,—12 EW—01,—12 Name Description 9002109 6.6% FB—01,—12 EW—01,—12 Name Description 9002109 6.6% FB—01,—12 EW—03 Name Description 9002109 | IW2-01 | 90024902 | 80° | | 70-WH | None Detected | None Amplied |
| MA | 10-1A1 | 90025102 | 808 | F.B03 | EW-04-09 | None Detected | Nane Applied |
| Name | ₩-08 | 90025103 | 808 | YN | × | None Detected | None Applied |
| NA NA NA NA NA NA NA NA | W-09 | 90025104 | 8.6% | V. | Š | None Detected | None Applied |
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| 90021702 05% FB-01,-02 EW-01,-02 None Detected 90021703 05% FB-01,-02 EW-01,-02 None Detected 90021703 05% FB-01,-02 EW-01,-02 None Detected 90021705 05% FB-01,-02 EW-01,-02 None Detected 90021705 05% FB-01,-02 EW-01,-02 None Detected 90021705 05% FB-01,-02 EW-01,-02 None Detected 90021705 05% FB-01,-02 EW-01,-02 None Detected 90021803 05% FB-01,-02 EW-02 None Detected 90021803 05% FB-01,-02 EW-02 None Detected 90021803 05% FB-01,-02 EW-03 None Detected 90021803 05% FB-01,-02 EW-03 None Detected 90021803 05% FB-01,-02 EW-03 None Detected 9002200 12.2% FB-01,-02 EW-03 None Detected 9002200 12.2% FB-01,-02 EW-04 None Detected 9002200 12.2% FB-01,-02 EW-04 None Detected 9002200 12.2% FB-01,-02 EW-04 None Detected 9002200 12.2% FB-01,-02 EW-04 None Detected 9002200 12.2% FB-01,-02 EW-04 None Detected 9002200 12.2% FB-01,-02 EW-04 None Detected 9002200 12.2% FB-01,-02 EW-04 None Detected 9002200 12.2% FB-01,-02 EW-04 None Detected 9002200 12.2% FB-01,-02 EW-04 None Detected 9002201 12.2% FB-01,-02 EW-04 None Detected 9002201 12.2% FB-01,-02 EW-04 None Detected 9002201 12.2% FB-01,-02 EW-04 None Detected 9002201 12.2% FB-01,-02 EW-04 None Detected 9002201 12.2% FB-01,-02 EW-04 None Detected 9002201 12.2% FB-01,-02 EW-04 None Detected 9002201 12.2% FB-01,-02 EW-04 None Detected 9002201 12.2% FB-01,-02 EW-04 None Detected 9002201 12.2% FB-01,-02 EW-04 None Detected 9002201 12.2% FB-01,-02 EW-04 None Detected 9002201 12.2% FB-01,-02 EW-04 None Detected 9002201 12.2% FB-01,-02 EW-04 None Detected 9002201 Non Applicable FB-01,-02 EW-04 None Detected 9002201 Non Applicable FB-01,-02 EW-04 None Detected 9002201 Non Applicable FB-01,-02 EW-04 None Detected 9002201 Non Applicable FB-01,-02 EW-04 None Detected 9002201 Non Applicable FB-01,-02 EW-04 None Detected 9002201 Non Applicable FB-01,-02 EW-04 None Detected 9002201 Non Applicable FB-01,-02 EW-04 None Detected 9002201 Non Applicable FB-01,-02 EW-04 None Detected 9002201 Non Applicable FB-01,-02 EW-04 None Detected 9002201 Non Applicable FB-01,-02 EW-04 None Detected 9002 | ETHOD MANA | MB1/9 | ŧŧ | 78-01-02 | NA -01 -02 | None Detected | THYCOT |
| 90021703 0% FB-01,-02 EW-01,-02 None Detected 90021704 0% FB-01,-02 EW-01,-03 None Detected 90021705 0% FB-01,-02 EW-01,-03 None Detected 90021707 0% FB-01,-02 EW-01,-03 None Detected 90021707 0% FB-01,-02 EW-01,-03 None Detected 90021801 0% FB-01,-02 EW-03 None Detected 90021802 0% FB-01,-02 EW-03 None Detected 90021803 0% FB-01,-02 EW-03 None Detected 90021804 0% FB-01,-02 EW-03 None Detected 90021806 0% FB-01,-02 EW-03 None Detected SD 90021806 NSD O% FB-01,-02 EW-04 None Detected SD 90021806 MSD O% FB-01,-02 EW-04 None Detected SD 90021806 MSD O% FB-01,-02 EW-04 None Detected | 81-01-11 | 90021702 | * | FB-01,-02 | EW-0102 | None Detected | 10UJ(HT) |
| OVERTION OFF FRB-01,-02 EW-01,-102 Name Descented 90021705 OFF FRB-01,-02 EW-01,-03 Nome Descented 90021707 OFF FRB-01,-02 EW-01,-03 670 mg/kg 90021707 OFF FRB-01,-02 EW-01,-03 670 mg/kg 90021803 OFF FRB-01,-02 EW-01,-03 670 mg/kg 90021803 OFF FRB-01,-02 EW-03 None Descend 90021803 OFF FRB-01,-02 EW-03 None Descend 90021804 OFF FRB-01,-02 EW-03 None Descend 8 90021805 OFF FRB-01,-02 EW-03 None Applicable 8D 90021806 OFF FRB-01,-02 EW-04 None Descend 90022001 2.2% FRB-01,-02 EW-04 None Descend 90022002 2.2% FRB-01,-02 EW-04 None Descend 9002202 2.2% FRB-01,-02 EW-04 None Descend 9002202 2.2% FRB-0 | 81-03-02 | 90021703 | * | PB-01,-02 | EW-0102 | None Detected | None Applied |
| 90021 705 099 FB-01,-02 EW-01,-02 670 mg/kg 90021 707 099 FB-01,-02 EW-01,-02 670 mg/kg 90021 707 099 FB-01,-02 EW-01,-02 670 mg/kg 90021 807 099 FB-01,-02 EW-01,-02 670 mg/kg 90021 807 099 FB-01,-02 EW-03 670 mg/kg 90021 804 099 FB-01,-02 EW-03 670 mg/kg 90021 804 099 FB-01,-02 EW-03 890 mg/kg 90021 804 099 FB-01,-02 EW-03 890 mg/kg 90022 801 2.2% FB-01,-02 EW-03 Not Applicable FB-01,-02 EW-03 Not Applicable FB-01,-02 EW-04 None Detected 90022 802 2.2% FB-01,-02 EW-04 None Detected 90022 802 2.2% FB-01,-02 EW-04 None Detected 90022 802 2.2% FB-01,-02 EW-04 None Detected 90022 802 2.2% FB-01,-02 EW-04 None Detected 90022 802 2.2% FB-01,-02 EW-04 None Detected 90022 802 2.2% FB-01,-02 EW-04 None Detected 90022 802 2.2% FB-01,-02 EW-04 None Detected 90022 802 2.2% FB-01,-02 EW-04 None Detected 90022 802 2.2% FB-01,-02 EW-04 None Detected 90022 802 2.2% FB-01,-02 EW-04 None Detected 90022 802 2.2% FB-01,-02 EW-04 None Detected 90022 802 2.2% FB-01,-02 EW-04 None Detected 90022 802 2.2% FB-01,-02 EW-04 None Detected 90022 802 2.2% FB-01,-02 EW-04 None Detected 90022 802 2.2% FB-01,-02 EW-04 None Detected 90022 802 802 802 802 802 802 802 802 802 | 91-03-05 | 90021704 | \$ | FB-01,-02 | EW-0102 | None Detected | policie Applied |
| 90021707 0% FB-01,-02 EW-01,-02 EW-02 SOUMENS 90021801 0% FB-01,-02 EW-03 Name Delected 90021801 0% FB-01,-02 EW-03 Name Delected 90021802 0% FB-01,-02 EW-03 Name Delected 90021804 0% FB-01,-02 EW-03 Name Delected 90021804 0% FB-01,-02 EW-03 Name Delected 90021806 MS 0% FB-01,-02 EW-03 Not Applicable FB-01,-02 EW-03 Not Applicable FB-01,-02 EW-03 Not Applicable PB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 1.2% FB-01,-02 EW-04 None Delected 9002203 Not Applicable FB-01,-02 EW-04 None Delected 9002203 Not Applicable FB-01,-02 EW-04 None Delected 9002203 Not Applicable FB-03 EW-05 1400 mg/kg 90002003 Not Applicable FB-03 EW-05 1400 mg/kg 90002003 Not Applicable FB-03 EW-05 1400 mg/kg 90002003 Not Applicable FB-03 EW-05 1400 mg/kg 90002003 Not Applicable FB-03 EW-05 1400 mg/kg 90002003 Not Applicable FB-03 EW-05 1400 mg/kg 90002003 Not Applicable FB-03 EW-05 1400 mg/kg 90002003 Not Applicable FB-03 EW-05 1400 mg/kg 90002003 Not Applicable FB-03 EW-05 1400 mg/kg 9000200 Not Applicable FB-03 EW-05 1400 mg/kg 9000200 Not Applicable FB-03 EW-05 1400 mg/kg 9000200 Not Applicable FB-03 EW-05 1400 mg/kg 9000200 Not Applicable FB-03 EW-05 1400 mg/kg 9000200 Not Applicable FB-03 EW-05 1400 mg/kg 9000200 Not Applicable FB-03 EW-05 1400 mg/kg 9000200 Not Applicable FB-03 EW-05 1400 mg/kg 900020 Not Applicable FB-03 EW-05 1400 mg/kg 9000200 Not Applicable FB- | 81-03-18 | 90021705 | ŧ. | FB-01,-02 | EW-0102 | None Detected | None Applied |
| 90021801 096 FFB-01,-02 EW-03 GOUNDAR 90021802 096 FFB-01,-02 EW-03 GOUNDAR 90021804 096 FFB-01,-02 EW-03 GOUNDAR 90021804 096 FFB-01,-02 EW-03 GOUNDAR 90021806 MSD 096 FFB-01,-02 EW-03 SOUNDAR 90021806 MSD 096 FFB-01,-02 EW-03 SOUNDAR 90021806 MSD 096 FFB-01,-02 EW-03 SOUNDAR 90021806 MSD 096 FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB-01,-02 EW-04 SOUNDAR 9002201 2.2% FFB | | 90021700 | ŝ | 101-102 101-101-102 | EW -0102 | Note Detected | None Applied |
| 90021802 096 FB-01,-02 EW-03 None Descrid 90021803 096 FB-01,-02 EW-03 None Descrid 90021804 096 FB-01,-02 EW-03 None Descrid 90021805 096 FB-01,-02 EW-03 None Descrid \$1 90021806 MS FB-01,-02 EW-03 None Applicable \$1 90021806 MS FB-01,-02 EW-03 None Applicable \$1 90021806 MS FB-01,-02 EW-03 Non Applicable \$1 90022301 2.2% FB-01,-02 EW-04 Non Applicable \$1 90022302 2.2% FB-01,-02 EW-04 Non Applicable \$1 90022303 2.2% FB-01,-02 EW-04 Non Applicable \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$2 \$1 \$1 \$2 \$1 \$2 \$1 \$2 \$2 \$2 \$2 \$2 | 81-02-03 | 90021801 | 8 | FB-01,-02 | EW-03 | 630 mg/kg | Nane Applied |
| 90021803 0% FB-01,-02 EW-03 S900 mg/kg 90021804 0% FB-01,-02 EW-03 S900 mg/kg FB-01,-02 EW-03 S900 mg/kg FB-01,-02 EW-03 S900 mg/kg FB-01,-02 EW-03 S900 mg/kg FB-01,-02 EW-03 Not Applicable S0002300 2.2% FB-01,-02 EW-04 S000 mg/kg S9002300 2.2% FB-01,-02 EW-04 S000 mg/kg S9002300 2.2% FB-01,-02 EW-04 S000 mg/kg S9002300 2.2% FB-01,-02 EW-04 S000 mg/kg S9002300 2.2% FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-01,-02 EW-04 S000 mg/kg FB-0 | B1-02-03R | 90021802 | *60 | PB-01,-02 | EW-03 | None Detected | None Applied |
| 90021804 096 FB-01,-02 EW-03 5900 mg/kg 48 90021804 096 FB-01,-02 EW-03 Nor Applicable 48 90021806 MSD 096 FB-01,-02 EW-03 Nor Applicable 48 90021806 MSD 096 FB-01,-02 EW-03 Nor Applicable 48 90021806 MSD 096 FB-01,-02 EW-04 Nor Applicable 49 90022301 2.2% FB-01,-02 EW-04 1500 mg/kg 49 90022302 2.2% FB-01,-02 EW-04 1500 mg/kg 49 90022303 2.2% FB-01,-02 EW-04 1500 mg/kg 49 90022303 2.2% FB-01,-02 EW-04 1500 mg/kg 49 90022303 2.2% FB-01,-02 EW-04 1500 mg/kg 49 90022303 2.2% FB-01,-02 EW-04 1500 mg/kg 49 90022303 2.2% FB-01,-02 EW-04 1500 mg/kg 49 90022303 2.2% FB-01,-02 EW-04 1500 mg/kg 49 90022303 2.2% FB-01,-02 EW-04 1500 mg/kg 49 90022303 2.2% FB-01,-02 EW-04 1500 mg/kg 49 90022303 2.2% FB-01,-02 EW-04 1500 mg/kg 49 90022303 2.2% FB-01,-02 EW-04 1500 mg/kg 49 90022403 Nor Applicable FB-01,-02 EW-05 2400 mg/kg 49 90022403 Nor Applicable FB-01,-02 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-01,-02 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor Applicable FB-03 EW-05 1400 mg/kg 49 90023403 Nor | B1-02-16 | 90021803 | * | FB-01,-02 | EW-03 | None Detected | None Applied |
| 485 90021805 MSD 099 FB-01,-02 EW-03 Not Applicable MSD 90021805 MSD 099 FB-01,-02 EW-03 Not Applicable MSD 90021805 MSD 099 FB-01,-02 EW-03 Not Applicable PB-01,-02 EW-04 None Detected 90022303 2.2% FB-01,-02 EW-04 None Detected 90022303 2.2% FB-01,-02 EW-04 None Detected 90022303 2.2% FB-01,-02 EW-04 None Detected 90022304 2.2% FB-01,-02 EW-04 None Detected 90022305 2.2% FB-01,-02 EW-04 None Detected 90022305 2.2% FB-01,-02 EW-04 None Detected 90022305 2.2% FB-01,-02 EW-04 None Detected 90022305 2.2% FB-01,-02 EW-04 None Detected 90022305 2.2% FB-01,-02 EW-04 None Detected 9002231 2.2% FB-01,-02 EW-04 None Detected 9002231 2.2% FB-01,-02 EW-04 None Detected 9002231 2.2% FB-01,-02 EW-04 None Detected 9002231 2.2% FB-01,-02 EW-04 None Detected 9002231 2.2% FB-01,-02 EW-04 None Detected 9002231 2.2% FB-01,-02 EW-04 None Detected 9002231 2.2% FB-01,-02 EW-04 None Detected 9002231 2.2% FB-01,-02 EW-04 None Detected 9002231 2.2% FB-01,-02 EW-04 None Detected 9002231 2.2% FB-01,-02 EW-04 None Detected 9002231 2.2% FB-01,-02 EW-04 None Detected 9002231 2.2% FB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detected 9002231 PB-01,-02 EW-04 None Detecte | B2-01-01 | 90021804 | * | FB-01,-02 | EW-03 | 5900 mg/kg | S900(HT) |
| Mail | B2-01-19 | 90021500 | £ 8 | FB-01,-02 | - MA | None Detected | None Applied |
| NA Nate Detected | 82-01-19 MSD | 90021806 MSD | ** | PB-01,-02 | EW-03 | Not Applicable | None Applied |
| NA Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Na | 9 110 | | | | | | |
| 9002201 2.2% FB-01,-02 EW-04 None Descend 9002202 2.2% FB-01,-02 EW-04 1500 mg/kg 9002203 2.2% FB-01,-02 EW-04 1500 mg/kg 9002204 2.2% FB-01,-02 EW-04 1500 mg/kg 9002205 2.2% FB-01,-02 EW-04 None Descend 9002206 2.2% FB-01,-02 EW-04 None Descend 9002207 2.2% FB-01,-02 EW-04 1500 mg/kg 9002207 2.2% FB-01,-02 EW-04 1500 mg/kg FB-01,-02 EW-04 1500 mg/kg FB-01,-02 EW-04 1500 mg/kg PB-01,-02 EW-04 1500 mg/kg PB-01,-02 EW-04 1500 mg/kg PB-01,-02 EW-04 1500 mg/kg PB-01,-02 EW-04 1500 mg/kg PB-01,-02 EW-04 1500 mg/kg PB-01,-02 EW-04 1500 mg/kg PB-01,-02 EW-04 1500 mg/kg PB-01,-02 EW-05 1400 mg/kg PB-01,-02 EW-05 1400 mg/kg PB-03 Not Appliable FB-01,-02 EW-05 2400 mg/kg PB-03 Not Appliable FB-01,-02 EW-05 1400 mg/kg PB-03 Not Appliable FB-01,-02 EW-05 1400 mg/kg PB-03 Not Appliable FB-03 EW-05 1400 mg/kg PB-03 Not Appliable FB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 | OILS TOTAL | 10107 | 300 | ** | 2 | Mone Detroped | |
| 90022302 2.2% FB-01,-02 EW-04 3000mg/kg 90022303 2.2% FB-01,-02 EW-04 3000mg/kg 90022304 2.2% FB-01,-02 EW-04 3000mg/kg 9002205 2.2% FB-01,-02 EW-04 None Description of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th | B2-02-01 | 90022301 | 12% | FB-01,-02 | EW-04 | Nane Detected | 10UJ(HT) |
| 90022303 2.3% FB-01,-02 EW-04 3000mg/kg 90022304 2.2% FB-01,-02 EW-04 None Detected 9002205 2.2% FB-01,-02 EW-04 None Detected 9002205 2.2% FB-01,-02 EW-04 None Detected 9002205 2.2% FB-01,-02 EW-04 None Detected 9002206 2.2% FB-01,-02 EW-04 None Detected 9002206 2.2% FB-01,-02 EW-04 None Detected 9002201 2.2% FB-01,-02 EW-04 None Detected 9002201 2.2% FB-01,-02 EW-04 None Detected 9002201 2.2% FB-01,-02 EW-04 None Detected 9002201 2.2% FB-01,-02 EW-04 H00mg/kg PB-01,-02 EW-04 H00mg/kg 9002201 Not Applicable FB-01,-02 EW-05 1400mg/kg 9002201 Not Applicable FB-01,-02 EW-05 2400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002201 Not Applicable FB-03 EW-05 1400mg/kg 9002001 Not Applicable FB-03 EW-05 1400mg/kg 9002001 Not Applicable FB-03 EW-05 1400mg/kg 9002001 Not Applicable FB-03 EW-05 1400mg/kg 9002001 Not Applicable FB-03 EW-05 1400mg/kg 9002001 Not Appli | B2-03-01 | 90022302 | 2.2% | FB-01,-02 | EW-04 | 1500 mg/kg | 1500l(HT) |
| 90022305 2.2% PB-01,-02 EW-04 None Descend 90022305 2.2% PB-01,-02 EW-04 None Descend 90022305 2.2% PB-01,-02 EW-04 None Descend 90022307 2.2% PB-01,-02 EW-04 None Descend 9002230 2.2% PB-01,-02 EW-04 None Descend 9002231 2.2% PB-01,-02 EW-04 None Descend 9002231 2.2% PB-01,-02 EW-04 None Descend 9002231 2.2% PB-01,-02 EW-04 160 mg/kg PB-01,-02 EW-04 160 mg/kg PB-01,-02 EW-04 160 mg/kg PB-01,-02 EW-04 160 mg/kg PB-01,-02 EW-04 160 mg/kg PB-01,-02 EW-05 1400 mg/kg PB-01,-02 EW-05 1400 mg/kg PB-03,-03 EW-05 1400 mg/kg PB-03,-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-05 1400 mg/kg PB-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 EW-03 | 82-04-01 | 90022303 | 2.2% | FB-01,-02 | EW-04 | 3000 mg/kg | 3000(HT) |
| 90022305 2.2% PB-01,-02 EW-04 1500 mg/kg 90022307 2.2% PB-01,-02 EW-04 1500 mg/kg 90022307 2.2% PB-01,-02 EW-04 370 mg/kg 90022310 2.2% PB-01,-02 EW-04 370 mg/kg 90022310 2.2% PB-01,-02 EW-04 None Desicted 9002231 2.2% PB-01,-02 EW-04 None Desicted 9002231 2.2% PB-01,-02 EW-04 180 mg/kg 9002231 2.2% PB-01,-02 EW-04 180 mg/kg 9002243 Not Applicable PB-01,-02 EW-05 1400 mg/kg 9002240 Not Applicable PB-01,-02 EW-05 1400 mg/kg 9002240 Not Applicable PB-01,-02 EW-05 1400 mg/kg 9002240 Not Applicable PB-03 EW-05 1400 mg/kg 9002240 Not Applicable PB-03 EW-05 1400 mg/kg 9002340 Not Applicable PB-03 EW-05 1400 mg/kg 9002240 Not Applicable PB-03 EW-05 1400 mg/kg | 10-10-12 | 90022305 | 2.2% | FB-01,-02 | EW | None Detected | 190J(HT) |
| 9002230 | P4-02-01 | 90022306 | 2.2% | FB-01,-02 | EW-04 | 1500 mg/kg | 15001(HT) |
| 90022308 2.74 FB-01,-02 EW-04 550 mg/kg 90022309 2.24 FB-01,-02 EW-04 None Detected 9002231 2.24 FB-01,-02 EW-04 None Detected 9002231 2.24 FB-01,-02 EW-04 None Detected 9002231 2.24 FB-01,-02 EW-04 180 mg/kg 9002231 2.24 FB-01,-02 EW-04 180 mg/kg 9002231 2.24 FB-01,-02 EW-04 1400 mg/kg 90022402 Not Applicable FB-01,-02 EW-04 1400 mg/kg 90022402 Not Applicable FB-01,-02 EW-05 2400 mg/kg 90022403 Not Applicable FB-03 EW-05 2400 mg/kg 90022403 Not Applicable FB-03 EW-06 1400 mg/kg 90022403 Not Applicable FB-03 EW-06 1400 mg/kg 90022403 Not Applicable FB-03 EW-06 1400 mg/kg 90022403 Not Applicable FB-03 EW-06 | B4-03-02 | 90022307 | 2.2% | FB-01,-02 | EW-04 | None Detected | (TH)(TO) |
| 90022309 2.7% FB-01,-02 EW-04 None Detected 9002310 2.7% FB-01,-02 EW-04 None Detected 9002311 2.2% FB-01,-02 EW-04 None Detected 9002312 2.2% FB-01,-02 EW-04 100 mg/kg 9002231 2.2% FB-01,-02 EW-04 100 mg/kg 9002243 Not Applicable FB-01,-02 EW-05 1400 mg/kg 9002243 Not Applicable FB-01,-02 EW-05 1400 mg/kg 9002243 Not Applicable FB-01,-02 EW-05 1400 mg/kg 9002243 Not Applicable FB-01,-02 EW-05 1500 mg/kg 9002343 Not Applicable FB-01,-02 EW-05 1500 mg/kg 9002343 Not Applicable FB-01,-02 EW-05 1500 mg/kg 9002343 Not Applicable FB-03 EW-05 1500 mg/kg 9002343 Not Applicable FB-03 EW-05 1500 mg/kg | 21 -03-01 | 90022308 | 2.2% | FB-01,-02 | EW-04 | 520 mg/kg | SZW(HT) |
| 9002231 2.2% FB-01,-02 EW-04 None Described 9002231 2.2% FB-01,-02 EW-04 100 mg/kg 9002231 2.2% FB-01,-02 EW-04 100 mg/kg 9002231 2.2% FB-01,-02 EW-04 100 mg/kg 9002240 Noi Appilable FB-01,-02 EW-05 1400 mg/kg 9002240 Noi Appilable FB-01,-02 EW-05 1400 mg/kg 9002340 Noi Appilable FB-01,-02 EW-05 2400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 EW-06 1400 mg/kg 9002340 Noi Appilable FB-03 | 24-63-02 24-63-02 | 90022309 | 2.2% | FB-01,-02 | EW 104 | None Detected | OCCUPATION OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE |
| 90022313 2.2% FB-01,-02 EW-04 160 mg/kg 90022313 2.2% FB-01,-02 EW-04 160 mg/kg 90022313 2.2% FB-01,-02 EW-04 140 mg/kg 90022403 Not Appilable FB-01,-02 EW-05 1400 mg/kg 90022403 Not Appilable FB-03 EW-05 1300 mg/kg 90023401 Not Appilable FB-03 EW-06 1400 mg/kg 90023401 Not Appilable FB-03 EW-06 1400 mg/kg 90023403 Not Appilable FB-03 EW-06 1400 mg/kg 90023403 Not Appilable FB-03 EW-06 1400 mg/kg 90023403 | Z-04-02 | 90022311 | 2.2% | FB-01,-02 | EW-04 | None Detected | 1001(HT) |
| 90022313 2.2% PB-01,-02 EW-04 64 mg/kg LANK MB193 Not Applicable PB-01,-02 EW-05 1400 mg/kg 90022403 Not Applicable FB-01,-02 EW-05 380 mg/kg 90022401 Not Applicable FB-01,-02 EW-05 380 mg/kg 9002301 Not Applicable FB-03 EW-06 1500 mg/kg 9002301 Not Applicable FB-03 EW-06 1400 mg/kg 9002301 Not Applicable FB-03 EW-06 1400 mg/kg | 10-10-10 | 90022312 | 2.2% | FB-0102 | EW-04 | 180 me/ke | 1804/HTD |
| LANK MB193 Not Applicable NA NA None Detected 90022403 Not Applicable FB-01,-02 EW-05 1400 mg/kg 90023401 Not Applicable FB-01,-02 EW-06 2400 mg/kg 90023501 Not Applicable FB-03 EW-06 2400 mg/kg 90023601 Not Applicable FB-03 EW-06 1500 mg/kg 90023602 Not Applicable FB-03 EW-06 1400 mg/kg | B4-05-02 | 90022313 | 2.2% | FB-01,-02 | EW-04 | 64 mg/kg | (44), |
| MB193 | OILS | | | į | į | | |
| 90022401 Not Applicable FB=-01, -02 EW=-03 HVORBJER 90022401 Not Applicable FB=-01 EW=-05 890 mg/kg 9002301 Not Applicable FB=-03 EW=-06 1400 mg/kg 9002301 Not Applicable FB=-03 EW=-06 1500 mg/kg 9002301 Not Applicable FB=-03 EW=-06 1400 mg/kg | IETHOD BLANK | MB193 | Not Applicable | YZ S | Y and | None Defected | · 100felin |
| 90023601 Not Applicable FB-03 EW-06 2400 mg/kg 90023601 Not Applicable FB-03 EW-06 1900 mg/kg 90023603 Not Applicable FB-03 EW-06 1400 mg/kg 90023603 | 3 5 | 90022403 | Not Applicable | FB-01,-02 | EW-05 | 850 me/ke | SECURITY SECURITY |
| 90023602 Not Applicable FB-03 EW-06 1500 mg/kg 90023603 Not Amelicable FB-03 EW-06 1400 mg/kg | BI -04-01 | 90023601 | Not Applicable | FB-03 | EW-06 | 2400 mg/kg | Nane Applied |
| 90023403 Not Applicable PB=03 PW=06 1400 meAre | B1-04-02 | 90023602 | Not Applicable | PB-03 | EW-06 | 1500 me/ke | Nate Applied |
| Selfmont on the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the country of the count | | | | | | | |

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| NA 1104/91 1104/91 1106/91 1106/91 1106/91 1106/91 1106/91 1106/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 1101/91 | | Holding (Time | Control Semple(LCS) | Spike Sample | PRECISION Duplicate Sample | Blank Asalysis | Date 5-Point Calibration | Correlation Coefficient |
| NA 11,07/91 10,030/91 10,030/91 10,031/91 10,031/91 11,01/91 11,01/91 11,03/91 11,03/91 11,03/91 11,03/91 11,03/91 11,03/91 11,03/91 11,03/91 11,03/91 11,03/91 11,03/91 11,03/91 11,03/91 11,03/91 11,03/91 11,03/91 | 10/10/10 10/10/10 10/10/10 10/10/10 10/10/10 | MA 11 DAYS 6 DAYS 6 DAYS 8 DAYS 8 DAYS 8 DAYS 8 DAYS 8 DAYS 8 DAYS 8 DAYS 8 DAYS 8 DAYS 8 DAYS 8 DAYS 8 DAYS 8 DAYS 8 DAYS 8 DAYS 8 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAYS 9 DAY | LC3 74]) ALL PERCENT RECOVERIES WITHIN CONTROL LIMITS (80-120%) | DATA NOT PROVIDED | DATA NOT PROVIDED | NO INTERPRENCE DETECTED | 11/1/91 11/1/91 11/1/91 11/1/91 11/1/91 11/1/91 11/1/91 11/1/91 | 9966 |
| NA 10,50,691 10,50,691 10,51,691 10,61,691 11,01,691 11,01,691 11,01,691 11,01,691 11,01,691 11,01,691 11,01,691 11,01,691 11,01,691 11,01,691 11,01,691 11,01,691 11,01,691 11,01,691 11,01,691 11,01,691 11,01,691 11,01,691 11,01,691 | 11,26/91 11,26/91 N | NA [] | ICS 7661 ALL PERCENT DATA NOT PROVIDED RECOVERIES WITHIN CONTROL LMITS (80-120%) | DATA NOT PROVIDED | DATA NOT PROVIDED | NO INTERPERENCE DETECTED | 11/26/91 | 0.998.2 |
| 16/30/11 | | NA 11 12 DAYS 11 12 DAYS 11 12 DAYS 11 12 DAYS 11 12 DAYS 11 12 DAYS 11 12 DAYS 12 DAYS 12 DAYS 13 DAYS 14 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAYS 15 DAY | ECOVERY (3%) RECOVERY (3%) RELOW CONTROL LINITS (75-125%) | (ROZ=1-1) RECOVERY VALUE (484) OUTSIDE LIMITS (75-125%) | MOZ=1=1 RECOVERY NALUE (71%) OVER 15 LIMITS (75-124%) BUT RPD VALUE WITHIN CONTROL LIMIT (≤ 35) | NO INTERPRIENCE DETECTIED | | 0.9966 |
| NA 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/18/91 11/1 | | MA 17 DAYS 17 DAYS 17 DAYS 17 DAYS 17 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 DAYS 18 | LC3.74) PERCENT RECOVERY WITHIN CONTROL LIMITS (15-12%) | (35-125%) | (8814–2-2) RECOVERY VALUE (72–125%) AND RPD VALUE (75–55) WITHIN CONTROL LIMITS | NO INTERPERENCE DETECTED | 11219 11219 11219 11219 11219 11219 11219 11219 11219 11219 11219 11219 11219 11219 11219 11219 11219 11219 11219 | 266 |

| SAIC Sample | Laboratory Identification | Post-rua Calibration | Field Blank | Equipment Blank | Significant Sample | Data Validation |
|---------------------|------------------------------|-------------------------|----------------|--------------------|-----------------------------|------------------------------|
| Number | Number | Check Point | Analysis | Analysis | Results | Qualifien |
| WATERS | | | | | | |
| METHOD BLANK | MB741 | 3,57% | ¥: | ¥: | None Detected | Man Amillad |
| FB1-1 | 13299 | 3578 | | Š | None Detected | Nose Applied |
| EB1-1 | 14265 | 3.57% | | ¥ | None Detected | None Applied |
| EB1A-1 | 14266 | 3.57% | | ¥ | None Detected | Nose Applied |
| MW1-02 | 14267 | 3.57% | | EBIA-1,1-1 | None Detected | None Applied |
| KW2-01 | 14355 | 3578 | | E82-1 | None Delected | None Applied |
| WW2-01R | 14356 | 3,57% | | EB2-1 | None Detected | None Applied |
| 782-1 882-1 | 14360 14361 | 3.57% 3.57% | | * * * | None Detected None Detected | None Applied None Applied |
| WATERS | | | | | | |
| METHOD BLANK P-8 | MB766 14396 | 2.2% | NA FB2-1 | NA EB2-1 | None Detected I mg/l | None Applied |
| | | | | | | |
| SOILS | | | | | | |
| METHOD BLANK | MB736 | 3.57% | Y | ¥ | None Detected | |
| B3-1-1 | 13114 | 3.57% | 7 | E82 | Too Concentrated to Analyze | None Applied |
| 83-1-1KE 81-7-7 | 13114RE | 1074 | | | None Detected | None Applied |
| B3-2-1 | 13174 | 3.57% | 784-1 | EB3-1 | 98 mg/kg | None Applied |
| B3-1-6 | 13175 | 3,57% | PB4-1 | EB3-1 | None Detected | None Applied |
| 903-1-6 | 13176 | 3.57% | 784-1 | EB3-1 | None Detected | Nose Applied |
| B1-1-2 | 13169 | 357% | - FEE | | None Detected | None Applied |
| B1-1-3 | 13190 | 3,57% | - FB4 | 1-142 | None Detected | None Applied |
| BG1-1-1 | 13279 | 3.57% | 781-1 781-1 | EB4-1 | 2.00 mg/kg 100 mg/kg | None Applied |
| 01-1-3 | 13280 | 3,57% | PB!-1 | EB4-1 | None Detected | None Applied |
| MG1-1-4 | 13281 | 3.77% | F81-1 | EB4-1 | None Detected | Nose Applied Nose Applied |
| 102-1-2 | 13243 | 3.57% | F81-1 | EB4-1 | None Detected | None Applied |
| BG2-1-3 | 13284 | 3.57% | 791 -1 | E#4-1 | None Detected | None Applied |
| B1-2-1 | 13283 | 357% | | E 1 | None Detected | Deligion Agent |
| SB1-2-3 | 13267 | 3.57% | | EB4-1 | None Detected | None Applied |
| SB1-2-7 | 13286 | 3.57% | - 10. 10. | EB4-1 | None Detected | None Applied |
| B1-1-7 G2-1-1 Me | 13289 | 357% | 707. 1-107. | | Nose Detected | Nose Applied |
| BG2-1-1 MSD | 13282 MSD | 3,57% | PB1-1 | EB4-1 | Not Applicable | Nose Applied |
| SHO | | | | | | |
| METHOD BLANK | MB748 | 28 | ¥ | ¥ | Nose Detected | |
| 581A-1-1 | 13290 | | | | None Detected | None Applied |
| \$81A-1-3 | 13292 | 38. | F01-1 | | None Detected | None Applied |
| \$B1A-1-5 | 13293 | 38 | FB1-1 | EB4-1 | None Detected | Nose Applied |
| BIA-2-1 | 13294 | | - 1 0 . | | None Detected | Nose Applied |
| 381A-2-4 | 13296 | | | 1-763 | Nose Detected | None Applied |
| 81A-3-1 | 13297 | . £ | FB1-1 | ED4-1 | Nose Detected | Nose Applied |
| B1A-3-3 | 13296 | * | PB1-1 | EB4-1 | None Detected | None Applied |
| SB1-3-1 | 14259 | 2 1 | FB1-1 | EBIA-1,1-1 | Nose Detected | Nose Applied |
| B1-3-3 | 14261 | | 781 | EBIA-1.1-1 | Poto-Detailed | None Applied |
| B1-3-3R | 14262 | 1 | FBI-1 | E81A-1,1-1 | None Detected | None Applied |
| BIA-3-2 | 14263 | 5% | FB1-1 | EBIA-1,1-1 | 1900 mg/kg | None Applied |
| BIA-3-5 | 14264 | ž. | FB1-1 | EB1A-1,1-1 | None Detected | Nose Applied |
| BIA-1-5 RIA-1-58 | 14346 | | FB2-1 | E52-1 | None Detector | Nose Applied |
| BIA-3-4 | 14350 | ** | FB2-1 | EB2-1 | Nose Detected | Nose Applied |
| BIA-2-2 MS | 13295 MS | 1 | | | Mar 4 10. | |
| | | 2 | 1-101 | | Not Appendiate | Nose Applied |

| | | |] | | Table F | 7-22c. Total Petroleum II. Indiana Ab National Gr | Table F-22c. Total Petroleum II.ydrocarbons Data Validation Worksbeets Indiana Air National Guard Base, Fort Wayne, Indiana | Vorksbeets | | | | |
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| O C 4 0 | Laboratory | 1 | į | 1 | Weldler | Laboratory | ACCURACY | PRECISION | 1 | Date | | Τ_ |
| Number | Number | Collected | Extracted | Analyzed | Time | Control Sample(LCS) | Spike Semple | Duplicate Semple | State Analysis | Salibration | Coefficient | - |
| SOILS METHOD BLANK SBIA-3-4R SBI-2-5 SBI-2-5R | MB749 1433 1433 1433 | NA 11/05/91 11/02/91 | 1,723/91 11/23/91 16/23/11 | 16,96711 | NA 21 DAYS 24 DAYS 24 DAYS | RECOVERY WITHEN CONTROL LIMITS (75-125%) | SBIA-3-4K] RECOVERY VALUE WITHIN LIMITS (75-125%) | (SBIA-3-4) RECOVERY VALUE (7-12%) AND RPD VALUE (-3-3) WITHIN CONTROL LIMITS | NO INTERFERENCE DETECTED | 11/2691 11/2691 11/2691 | 0.9962 | |
| SBIA-3-4R MS SBIA-3-4R MSD | | 11/06/91 | 10/22/11 | | | , | | | | 11/26/91 | | |
| WATERS (OIL & CMETHOD BLANK EB3-1 PM-1 NW2-0I RW2-0I FR2-1 | Grease) MB766 13167 13204 14336 14356 14360 | NA 1031/91 11/04/91 11/06/91 11/06/91 11/06/91 | 16,92/11 16,92/11 16,92/11 16,92/11 16,92/11 | 172691 172691 172691 172691 172691 172691 | NA 26 DAYS 26 DAYS 26 DAYS 26 DAYS 26 DAYS 26 DAYS | LCS 766) PERCENT RECOVERY WITHIN CONTROL LIMITS (80-120%) | DATA NOT PROVIDED | DATA NOT PROVIDED | NO INTERFERENCE DETECTED | 11/26/91 11/26/91 11/26/91 11/26/91 11/26/91 | Q. 9902 | |
| SOILS (OI & Grense) METHOD BLANK MBN7 1819-1-1 1310-2-2 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310-1 1310- | ABO) MB767 10114 10104 10104 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 10105 | NA 1030/91 1031/91 1031/91 1031/91 1031/91 | 172691 172691 172691 172691 172691 172691 172691 | 10,9671 10,9671 10,9671 10,9671 10,9671 10,9671 | KA 27 DAYS 26 DAYS 26 DAYS 26 DAYS 26 DAYS 26 DAYS 26 DAYS | LCS '56] PERCENT RECOVERY WITHIN CONTROL LIMITS (73-125%) | SB3-2-1] RECOVERY VALUE WITHIN LIMITS (73-125%) | SECTON RECOVERY VALUE (%-12%) AND RPD VALUE (≤-13%) AND RPD VALUE (≤ 35) WITHIN CONTROL LIMITS | NO INTERFERENCE DETECTED | 16,92/11 16,92/11 16,92/11 16,92/11 16,92/11 | α 9962 | |
| SOLLS & WATERS \$84-1-1(M.500) \$84-1-1(M.330) | 18 18115 18115 | 16/05/01 | Not Provided 11/10/91 | 19/13/1 19/11/1 | 13 DAYS 18 DAYS | DATA NOT PROVIDED | ALL RECOVERY VALUES WITHIN LIMITS FOR | ALL RECOVERY VALUES WITHIN LIMITS FOR | NO INTERPRENCE DETECTED | Not Provided Not Provided | Not Provided | |
| \$B4-1-2 (M 5030) \$B4-1-2 (M 3550) | 13116 13116 | 10/30/91 | Not Provided 11/10/91 | 16/21/11 16/21/11 | 13 DAYS 16 DAYS | : | WATERS (80-1278) AND SOILS (76-1258) EXCEPT WATERS 481 [for Diem] | WALUES (≤ 35) EXCEPT | | Not Provided Not Provided | | |
| \$84-1-6 (M 5030) \$84-1-6 (M 3550) | 13117 | 10/30/91 | Not Provided 11/10/91 | 19/21/11 | 13 DAYS 18 DAYS | | (69%) AND %R3 [for Dees] (69%); AND \$OLLS: %R1 [for Dees] (75%) | WATERS: \$R1 [for Diem.] (74%) AND \$R3 [for Diem.] (74%); AND SOILS \$R2 | | Not Provided Not Provided | | |
| SB4-2-1 (M 5050) SB4-2-1 (M 3550) | 13145 13145 | 10/20/91 | Not Provided 11/10/91 | 19/21/11 11/17/91 | 12DAYS 17DAYS | | | for the sel (63%) | | Not Provided Not Provided | | |
| SB4-2-2 (M 5030) SB4-2-2 (M 3550) | 13186 13166 | 16/15/01 | Not Provided 11/10/91 | 19/21/11 19/11/11 | 12DAYS 17DAYS | | | | | Not Provided Not Provided | | |
| PB4-1 (M 5000) TB11-1-91 (M 5030) SB4-3-1 (M 5030) SB4-3-1 (M 3030) | 13196 13196 13200 13200 | 16/10/11 11/0/91 11/0/91 | Not Provided Not Provided Not Provided 11/07/91 | 1713/91 11/13/91 11/14/91 11/17/91 | 12DAYS 12DAYS 13DAYS 16DAYS | | | | | Not Provided Not Provided Not Provided Not Provided | | |
| \$B4-3-2 (M 5030) \$B4-3-2 (M 3550) | 13201 | 16/10/11 | Not Provided 11/07/91 | 16/27/1 16/17/1 | 21 DAYS 16 DAYS | | | | | Not Provided Not Provided | | |
| \$B4-3-4 (M 5030) \$B4-3-4 (M 3550) | 13202 | 16/10/11 | Not Provided 11/07/91 | 16/1/11 | 13 DAYS 16 DAYS | | | | | Not Provided Not Provided | | · · · · · · |
| EB1 (M 3510) | 13203 | 16/10/11 | 11/14/91 | 10/11/11 | 16 DAYS | | | | | Not Provided | | |
| FB4-: (M 3S10) | 13204 | 16/10/11 | 11/14/91 | 16/1/11 | 16 DAYS | | | | | Not Provided | | |
| MW4-01 (M 5030) MW4-01 (M 3510) | 1487 | 11/06/91 | Not Provided 11/14/91 | 18/21/11 18/71/11 | 7DAYS 11 DAYS | | | | | Not Provided Not Provided | | |
| MW4-02 (M 5030) MW4-02 (M 3510) | 14358 | 11/06/91 | Not Provided | 19/11/11 19/11/11 | 7DAYS 11 DAYS | | | | | Not Provided Not Provided | | |
| MW4-02R (M 5030) MW4-02R (M 3510) | 14359 | 11/06/91 | Not Provided 11/14/91 | 1941/11 1971/1 | /DAYS | | | | | Not Provided Not Provided | | |
| SED-1 (M 3550) | 14395 | 10/20/11 | 17/15/91 | 16/11/11 | 10 DAYS | | | | | Not Provided | | |
| SED-2 (M 3550) | 14396 | 170/1 | 11/15/91 | 16/1/11 | 10 DAYS | | | | | Not Provided | | |
| P-1 (M 3510) | 14397 | 16/20/11 | 17/1491 | 10/1/11 | 10 DAYS | | | | | Not Provided | | |
| | | | | | | i | | | | | | |

| SAIC Sample Number | Laboratory Identification Number | Post-run Calibration Check Point | Field Blank Analysis | Equipment Blank Analysis | Significant Sample Results | Data Validation Qualifiers |
|------------------------------------------|----------------------------------------|----------------------------------------|----------------------------|--------------------------------|-----------------------------------------------------------|----------------------------------|
| SOILS | | | | | | |
| METHOD BLANK | MB749 | 2178 | ≨ § | Ž į | None Detected | Mone Amilia |
| -2-5 | 1682 | 2178 | - 22 | EB2-1 | 21 ma/a | None Aggled |
| SB1-2-5R | 14353 | 217 | PB2-1 | EB2-1 | None Detected | Nose Applied |
| 581A-3-4R MSD | IASSI MSD | 2178 | FB2-1 FB2-1 | EB2-1 | Not Applicable Not Applicable | Nos Appled |
| A BOY SAGE | ~ | | | | ĭ | |
| METHOD BLANK | MB766 | 22% | ž | ¥: | None Detected | |
| : T | 13204 | 278 | žž | \$ \$ | None Detected | None Acribed |
| 7-01 | 14355 | 2.2% | PB2-1 | EB2-1 | None Detected | None Applied |
| | 14356 | 17. T | FB2 - 1 | EB2-1 | Smy | Nos Apple |
| EB2-1 | 14361 | 22% | S X | ₹ | None Detected | None Applied |
| ILS (Oil & Grease) | 186) | | | | | |
| × | MB767 | 2176 | ¥ | ¥ | None Detected | |
| SB3-1-1 SB3-2-2 | 13161 | 217 | | EB3-1 | 7300 mg/kg None Detected | None Applied None Applied |
| -2-1 | 13182 | 2176 | 18 | EB3-1 | None Detected | None Applied |
| 9 - 1 - 9 | 215 | 2176 | | E83-1 | Note Detected | Nose Applied |
| SB3-2-1 MS | 13162 MS | 217 | 3 | E83-1 | Not Applicable | None Applied |
| -2-1 MSD | 13182 MSD | 2.17% | 784 -1 | EBG-1 | Not Applicable | None Applied |
| ILS & WATER | 80 | | | | | |
| SB4-1-1 (M 3030) 1 SB4-1-1 (M 3350) 1 | 13115 13115 | No data provided No data provided | 74 74 75 | EBG-1 EBG-1 | as Gascline: None Detected as Diesel: 4.9 mg/tg | None Appthed None Appthed |
| -1-2 /M 5000 | 11116 | No determination | 1.84-1 | 1001 | as Motor Oli: 11 mg/kg | Mrns Amiled |
| SB4-1-2 (M 3550) | 13116 | No the provided | | EBS-1 | as Diesel: None Detected | None Applied |
| SB4-1-6 (M 5030) | 13117 | No data provided | FBA-1 | EB3-1 | as Motor Off: None Detected as Gasoline: None Detected | None Applied |
| -1-6 (M 3550) | 13117 | No data provided | FB4-1 | EB3-1 | es Diesel: 96 mg/kg | None Applied |
| SB4-2-1 (M 5030) | 13165 | No data provided | 794 1-10 | EB3-1 | as Gesoline: None Detected | None Applied |
| (norm la) 1 - 1 - | 8101 | named at man out | Ĭ | | as Motor Olf. 40 mg/kg | namida amar |
| SB4-2-2 (M 5030) SB4-2-2 (M 3550) | 13186 13186 | No data provided No data provided | 7 7 | 88 - 1 - 28 - 1 | as Gasoline: None Detected as Diemi: None Detected | None Applied None Applied |
| , | | | ; | | as Motor Off: None Detected | |
| TB11-1-91 (M 5030) | 13198 | No des provided | <u> </u> | ≨≨ | as Gasofine: None Detected as Gasofine: None Detected | Nose Applied Nose Applied |
| -3-1 (M 3030) | 13200 | No data provided | 1.0 | EB4-1 | as Gasoline: None Detected | Nose Applied |
| (OCCC M) I - C - | 13600 | No chair provided | 1 | - + 402 | as Motor Off: Note Detected | penithy enov |
| SB4-3-2 (M 3030) SB4-3-2 (M 3550) | 13201 | No data provided No data provided | 7.5 | E 14 | as Gasoline: None De noted as Die nel: None Denoted | Nose Applied Nose Applied |
| , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | i | | as Motor Off: None Detected | |
| SB4-3-4 (M 3550) | 13202 | No data provided | | | as Diesel: 16 mg/kg | Nose Applied |
| EB4-1 (M 3510) | 13203 | No data provided | Ž | × | as Motor Oll: 27 stg/kg as Diesel: Note Defected | None Acrolled |
| W136 PV 1 - 784 | 11304 | No determinant | 42 | × | as Motor Oil: None Detected | Mone Arrelland |
| (00000) | | | <u> </u> | | as Motor Off: None Detected | |
| MW4-01 (M 5030) MW4-01 (M 3510) | 14357 | No data provided No data provided | FB2 - 1 FB2 - 1 | EB2-1 | as Casoline: None Detected as Dienel: None Detected | None Applied None Applied |
| , | | | | | as Motor Off: None Detected | |
| MW4-02 (M 3510) MW4-02 (M 3510) | 1436 | No date provided | 782-1 782-1 | EB2-1 | as Diesek None Detected as Diesek None Detected | None Applied None Applied |
| MW4-02R (M 5030) | 14359 | No data provided | FB2-1 | EB2-1 | as Gredine: None Desected | None Applied |
| 4-02R (M 3510) | 14359 | No data provided | FB2-1 | EB2-1 | as Diesel: None Detected as Motor Oil: None Datacted | None Applied |
| SED-1 (M 3550) | 14395 | No data provided | FB2-1 | EB2-1 | as Diesel: None Detected | None Applied |
| SED-2 (M 3550) | 14396 | No data provided | FB2-1 | EB2-1 | as Dieselt. None Detected | None Applied |
| | | | | | | |

Footnotes to Tables F-22a through F-22c. Total Petroleum Hydrocarbons Data Validation Worksheets Indiana Air National Guard Base, Fort Wayne, Indiana

Holding time for both soils and waters is 28 days.

Control Limits for LCS Analyses

%R: 80-120

Control Limits for Water TPH MS/MSD Analyses

R%: 75-125, %RPD = 20

Control Limits for Soil TPH MS/MSD Analyses

R%: 75-125, %RPD = 35

calibration curve were greater than 0.995. Based on an evaluation of instrument calibration requirements all initial calibration criteria were met.

Method Blank Results — One method blank was extracted and analyzed with each batch of samples collected during the Indiana ANGB SI for TPH and oil and grease. Based on evaluation of all method blanks analyzed, no interferents were detected.

Laboratory Control Sample Analysis — One LCS was conducted with each batch of soil and groundwater samples analyzed by the NET Laboratory, as required by the DOE/HWP-65/R1. The recovery results of each LCS analyzed with the groundwater and soil samples were evaluated against an 80 to 120 percent control limit. Based on an evaluation of all LCS analyses conducted, the percent recoveries of all LCS values were within acceptable limits.

Matrix Spike/Matrix Spike Duplicate Results — MS/MSD analyses were conducted to assess the accuracy and precision of the laboratory and to evaluate the matrix effect of the sample upon the analytical methodology based upon the percent recovery of the spike compounds. Precision was expressed as the RPD of the concentrations of the spike compounds in the MS/MSD samples. One MS/MSD analysis was required for each set of the 20 samples of the similar matrix, excluding dilutions and re-analyses conducted.

Five MS/MSD analyses were conducted using soil sample (i.e., SB2-01-19 [TPH], BG2-1-1 [TPH], SB1A-2-2 [TPH], SB1A-3-4R [TPH], and SB3-2-1 [oil and grease]. All recoveries were within the control limits, except for TPH (68 and 71 percent) in BG 2-1-1. NO data validation qualifiers have been applied, since TPH was not detected in the original samples. All differences were within the control limits. Tables F-23 summarized the MS/MSD results for soil samples. No MS/MSD analysis was performed for water samples.

Significant Sample Results — TPH, oil and grease, and TPH as diesel and motor oil results in all samples are presented in the data summary tables, in the data presentation tables located in Appendix E, and in Tables F-22. Data validation qualifiers have been applied to

| | | ACCURACY | ACY | | | | | PRECISION | NOI | |
|-----------------------|---------------------------------------|-------------------------------|-------------------------|------------------------------------|-------------------------------------|------------------------------|---------|-----------|---------------------------------|-------------------------------------|
| PARAMETER | MATRIX SPIKE TOTAL No ANAL YSES | PERCENT RECOVERY RANGES | %R CONTROL LIMITS | NUMBER WITHIN CONTROL LIMITS | NUMBER OUTSIDE CONTROL LIMITS | MSD TOTAL NG ANAL YSES | RANGE | RPD | NUMBER WITHIN CONTROL LIMITS CO | NUMBER OUTSIDE CONTROL LIMITS |
| TPH OIL AND GREASE | eo 61 | (68 – 102) | (75–125) (75–125) | 9 | 2 | ₹ # | (1-9.5) | x x | * • | 0 |

MATRX SPIKE AND LABORATORY DUPLICATE PERFORMED ON SAMPLES 5D2-01-19, BG2-1-1, SB1A-2-2, SB1A-3-4R, AND SB3-2-1.

selected sample results to indicate that these results were considered estimated due to holding time violation.

F.3.3.3. Total Dissolved Solids (TDS) Analyses Results

Five groundwater samples and 3 field QC blanks (i.e., field blanks and equipment blank) were collected and during the Indiana ANGB SI and were analyzed for TDS by the NET Laboratory using the EPA Method 160.1. Data quality was evaluated using the guidelines and control limits for holding times, method blank, and duplicate sample analysis. The data validation worksheets are presented in Tables F-24.

Holding Times—Holding times were defined as the maximum amount of time allowed to elapse between the date and time of sample collection and date and time the sample was analyzed. The NET Laboratory was required by the SOW prepared for the Indiana ANGB, Fort Wayne SI to meet the holding time of 7 days for water samples. Based on an evaluation of the environmental samples and field QC blanks analyzed for TDS, all holding time criteria were met.

Method Blanks-One method blanks analysis was conducted with each batch of environmental samples and field QC blanks analyzed for TDS. Each method blanks was evaluated for interferents that might potentially interfere with accurate quantitation of a target element. Based on an evaluation of method blanks analyzed by the NET Laboratory TDS was detected in MB171 (11 mg/L) and MB200 (20 mg/L). As a result the concentration of EW-08 (i.e., 50J[MB) associated with MB200 was qualified (i.e., "J[MB]") to indicate that the TDS reported was considered estimated, since the concentration reported did not exceed 10 times that reported in the method blank.

Duplicate Analysis — One duplicate analysis was analyzed and the RPD value was calculated. Precision was express as the RPD of detected compound. The control limits for RPD were described in DOE/HWP-65/R1. Duplicate sample was evaluated to verify that 1 duplicate sample analysis was conducted on environmental samples only and that the difference

TABLE F-24. TOTAL DISSOLVED SOLIDS DATA VALIDATION WORKSHEETS INDIANA AIR NATIONAL GUARD BASE, FORT WAYNE, INDIANA

| ç | | | Ē |
|-----------------------------------------------------|------------------------|-----------------------------|----------------------------------|
| Identification Date Date Number Collected Analyzed | te Holding zed Time | Dupneate Sample Analysis | blank Analysis |
| | | | • |
| | | | |
| NA 08/30/90 | | MW1-01 RPD VALUE | INTERFERENCE |
| Ū | 400 WA | WITHIN LIMITS | DETECTED |
| 08/27/80 | 7D, | $(\leq 20\%)$ | |
| | /90 7 DAYS | | |
| 09/12/90 | | | |
| 09/12/90 | | | |
| 09/13/90 | | | |
| 09/14/90 | | | |
| | //90 4 DAYS | | |
| 09/15/90 | | | |
| 09/12/90 | | | |
| 06/16/90 | _ | | |
| 90025102 DUP 09/15/90 90025105 | | | 09/18/90 09/18/90 09/18/90 |

TABLE F-24. TOTAL DISSOLVED SOLIDS DATA VALIDATION WORKSHEETS INDIANA AIR NATIONAL GUARD BASE, FORT WAYNE, INDIANA (CONTINUED)

| | SAIC Sample Identification Number Number | rield Blank Analysis | Equipment Blank Analysis | Significant Sample Results | Data Validation Qualifiers | |
|------------|------------------------------------------|----------------------------|--------------------------------|----------------------------------|----------------------------------|--|
| | | | | | | |
| WATER | | | | | | |
| | MB171 | V. | ٧Z | 11 mg/L | | |
| | MB200 | NA A | NA | 20 mg/L | | |
| | 90021708 | Y Y | AN | 230 mg/L | None Applied | |
| FB-02 | 90021709 | Y. | NA | 150 mg/L | None Applied | |
| | 90025103 | X. | ₹Z | 50 mg/l | SOLOMB | |
| | 90023901 | FB-01,-02 | EW-08 | 620 rr s/L | 6201/FB) | |
| | 90024801 | FB-01,-02 | EW-08 | 610 mg/L | 610I(FB) | |
| | 90024902 | FB-01,-02 | EW-08 | 360 mg/L | \$601(FB) | |
| | 90025101 | FB-01,-02 | EW-08 | 700 mg/L | 7001(FB) | |
| MW1-01 | 90025102 | FB-01,-02 | EW-08 | 530 mg/L | 530J(FB) | |
| MW1-01 DUP | 90025102 DUP | FB-01,-02 | EW-08 | 520 mg/L | None Applied | |
| P-8 | 90025105 | FB-01,-02 | EW-08 | 540 mg/L | 540J(FB) | |

FOOTNOTES TO TABLE F-24. TOTAL DISSOLVED SOLIDS DATA VALIDATION WORKSHEETS INDIANA AIR NATIONAL GUARD BASE, FORT WAYNE, INDIANA

Holding time for water sample is 7 days.

Control Limits for Water TDS Laboratory Duplicate Analysis %RPD: $\leq 20\%$.

results did not indicate systematic laboratory control problems. Duplicate sample result is presented in Table F-25.

One duplicate analysis (i.e., MW1-01) was conducted using groundwater sample collected during the Indiana ANGB SI. The percent difference was within the control limits.

Significant Qualified Sample Results — Data validation qualifiers have been applied to EW-08 (i.e., 50J[MB]) to indicate that TDS was detected in the associated laboratory method blanks.

TABLE F-25. TDS LABORATORY DUPLICATE QC SUMMARY: GROUNDWATER INDIANA AIR NATIONAL GUARD BASE, FORT WAYNE, INDIANA

| PARAMETER | LAB. DUPLICATE TOTAL No. ANAL YSES | RANGE | RPD LIMITS | NUMBER WITHIN CONTROL LIMITS | NUMBER OUTSIDE CONTROL LIMITS |
|-----------|------------------------------------------|-------|---------------|------------------------------------|-------------------------------------|
| TDS | 1 | 1.9 | 25 | - | 0 |

DUPLICATE SAMPLE ANALYSES PERFORMED ON SAMPLE MW1-01.

APPENDIX G RISK ASSESSMENT PROCEDURES

APPENDIX G. HUMAN HEALTH RISK ASSESSMENT PROCESS INDIANA AIR NATIONAL GUARD BASE

G.1 INTRODUCTION

Risk assessment is an essential component of the Remedial Investigation/Feasibility Study (RI/FS) process at hazardous waste sites. The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP: the regulation that implements CERCLA) require that actions selected to remedy hazardous waste sites be protective of human health and the environment. An overview of risk assessment in the RI/FS process is presented in the NCP and in the U.S. Environmental Protection Agency (EPA) manual Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA (USEPA 1988b). A baseline risk assessment is conducted as part of the RI to assess site conditions in the absence of remedial actions. As part of the FS process, risk assessment is used to evaluate the acceptability of proposed remedial actions and as a tool in the development of remediation objectives (target cleanup levels).

Because of the limited scope of work, a preliminary human health risk assessment has been conducted as part of the Site Investigation (SI) for the Indiana Air National Guard Base (ANGB). The risk evaluation examines the presence and release of chemicals from the waste sites under investigation, the observed levels of the compounds in the environment, the potential routes of exposure to human receptors, and the likelihood of adverse health effects following contact with contaminated environmental media. A detailed overview of the evaluation methods used is presented in the following discussion.

The focus of this evaluation is not an absolute assessment of the risks of exposure to the chemicals present at the Indiana ANGB. Rather, this evaluation is an assessment of the relative magnitude of anticipated health problems that may be associated with exposure to chemicals detected at the site. The intention is to determine if there is a significant threat to human health and to assess the need for site remediation.

G.2 OVERVIEW OF METHODS

The general approach to human health risk evaluation of exposure to chemical contaminants has been well-established. The National Research Council (NRC) prepared a comprehensive overview of the structure of this assessment (NRC 1983) that has become the foundation for subsequent EPA guidance. The *Human Health Evaluation Manual* and the *Environmental Evaluation Manual* (USEPA 1989a,b) provide a detailed presentation of the risk assessment process. These documents along with three recently published reports (USEPA 1991a,b,c) are the Agency's key guidance on risk assessment under the Superfund Program.

As specified by EPA, the human health evaluation process may be divided into four fundamental component analyses: (1) data evaluation and hazard identification, (2) exposure assessment, (3) toxicity or hazard assessment, and (4) risk characterization. These analyses are briefly described in the following sections.

G.2.1 Data Evaluation and Hazard Identification

The first step in the risk evaluation process is to obtain and evaluate all available data on contaminants present at the sites under investigation. The objective is to organize the data into a form appropriate for the baseline risk assessment. Once the preliminary data set has been obtained and sorted by environmental medium, the following evaluation steps should be completed:

- Evaluate the analytical methods used to determine if results are appropriate for use in quantitative risk assessment
- Evaluate the quality of data with respect to sample quantitation and detection limits
- Examine laboratory qualifiers assigned to monitoring data and evaluate potential quality assurance/quality control (QA/QC) problems
- Evaluate the quality of data with respect to blanks and tentatively identified compounds (TICs)
- Summarize information on background concentrations of chemicals and compare with observed levels of site-related contamination
- Identify chemicals of potential concern: develop a data set that may be appropriately used in the risk assessment process

• If appropriate, further limit the number of chemicals to be used as the subject of the risk assessment.

From the full listing of all chemicals identified at a waste site or facility, a subset may be identified that is of sufficient quality to be used in risk evaluation. It may be impractical to evaluate all chemicals that have passed through QA/AC review. Representative "highest risk" compounds may be selected on the basis of: (1) quantities present at the site; (2) extent of environmental contamination, toxicity, or hazardousness; and (3) mobility and persistence of the chemical in the environment. This final step is specified as optional by EPA and does not improve the quality or accuracy of the risk evaluation. It is suggested as a device for facilitating the risk evaluation process when time and resources prohibit the evaluation of the full (and often complex) data set.

G.2.2 Exposure Assessment

The objectives of the exposure assessment are to: (1) delineate exposure pathways; (2) identify receptors at risk; and (3) measure or estimate for each receptor the intensity, duration, and frequency of the exposure. Critical to the exposure assessment is a quantification of the releases of contaminants of concern to each environmental medium (from all sources at the waste site) and an assessment of the transport and transformation of the subject compounds. The results of these analyses provide data on the magnitude and extent of contamination. Both monitoring data and environmental transport modeling typically are used in the exposure assessment.

EPA has specified that actions at hazardous waste sites should be based on an estimate of the reasonable maximum exposure (RME) expected to occur under both current and future land-use conditions (USEPA 1989a). EPA defines the RME as the highest exposure that is reasonably expected to occur at a site. RMEs are estimated for individual pathways, and combined across exposure routes if appropriate.

Once receptors at risk are identified, environmental concentrations at points of exposure must be determined or projected. In the evaluation of Indiana ANGB, exposure concentrations are based completely on the results of site monitoring. No transport modeling has been used.

Representative concentrations for use in risk evaluation are taken as the arithmetic mean of the sampling results. "Not detected" results were treated as one-half the limit of detection and included in calculation of the arithmetic mean.

Intake and dose estimates (in mg/kg/day) are developed for each chemical of concern using the representative environmental concentrations (i.e., mean values). Estimates of dose are needed in the risk characterization and are generally determined as follows:

Dose = C x
$$\frac{CR \times EF \times ED \times ABS}{BW \times AT}$$

where:

EF

C = Chemical concentration in the environmental medium under evaluation

CR = Contact rate; the amount of contaminated medium contacted per unit time or event

= Exposure frequency

ED = Exposure duration

ABS = Absorption factor

BW = Body weight; the average over the exposure period

AT = Averaging time; the period over which exposure is averaged.

The above expression is the general form of the equation used to derive estimates of subchronic or chronic intake or dose (lifetime assumed to be 70 years). The chronic dose estimate based on mean concentrations in environmental samples (arithmetic mean) was used as the basis of the risk characterization at all sites under investigation.

Identification of Exposure Pathways

Exposure pathways and contaminated media are identified and used to project exposure of receptor population to site contaminants. Characterization of each contaminant pathway consists of the following five elements:

- Identify potential receptor populations
- Characterize source and mechanism of chemical release to the environment
- Identify environmental transport media for release
- Identify exposure points where a receptor population may come in contact with the contaminated media
- Characterize exposure routes at the exposure point.

Exposure profiles for each area and receptor group are discussed in Section 4.

G.2.2.3 Comparison with Applicable or Relevant and Appropriate Requirements

Once the baseline concentrations of subject chemicals have been determined at the waste sites, these levels are compared to applicable or relevant and appropriate requirements (ARARs). CERCLA of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986, requires the selection of remedial actions at Superfund hazardous waste sites that are protective of human health and the environment, cost-effective, and technologically and administratively feasible. Section 121 of CERCLA specifies that response action must be undertaken in compliance with ARARs established in Federal and state environmental laws.

In the revised NCP (NCP: 55 FR 8666) and the guidance document CERCLA Compliance with Other Laws Manual (USEPA 1988a), several different types of requirements are identified with which Superfund remedial actions must comply: (1) ambient or chemical-specific requirements, (2) action-specific requirements, and (3) location-specific requirements. Because situations at CERCLA sites vary widely, EPA cannot categorically specify requirements that will be ARARs for every National Priorities List (NPL) site. ARARs can only be identified on a site-specific basis (i.e., established in connection with the characteristics of the particular site, the chemicals present at the site, and the remedial alternatives suggested by the circumstances of the site).

According to the guidance presented in the revised NCP, protectiveness (i.e., the ability to protect human health and the environment) means that a given remedial alternative meets or exceeds ARARs, or other risk-based levels established through a risk evaluation when ARARs

do not exist or are waived. In the NCP and in the guidance manual on CERCLA compliance with other laws (55 FR 8666, USEPA 1988a, 1989d), EPA specifies that when ARARs are not available for a given chemical, or where such ARARs are not sufficient to be protective, health advisory levels should be identified or developed to ensure that a remedy is protective.

For carcinogenic effects, these health advisory or cleanup levels are to be selected such that the total risk of all contaminants falls within the acceptable range of 10⁴ to 10⁶. Although the 10⁶ risk level is identified by EPA as a "point of departure" in evaluating the results of risk evaluation, the revised NCP clearly indicates that the 10⁴ level is the upper bound of the acceptable range (55 FR 8666). In cases where noncarcinogenic effects are a concern, EPA specifies that cleanup should be based on acceptable levels of exposure as determined by the EPA reference doses (RfDs), taking into account the effects of multiple contaminants and multiple exposure pathways at the site.

Therefore, chemical-specific ARARs serve two primary purposes: (1) requirements that must be met by a selected remedial alternative (unless a waiver is obtained), and (2) as a basis for establishing appropriate cleanup levels. The preliminary health risk evaluation of a given remedial action alternative characterizes the actual risk of exposure of human receptors to contaminants under investigation. For carcinogens, risk characterization yields a probabilistic estimate of the additional lifetime risk of cancer in the exposed individual or the incidence of new cases of cancer in populations. For noncarcinogens, exposure levels or doses for all subject compounds are evaluated to determine if these exceed EPA RfDs or reference concentrations (RfCs). When an ARAR is available for all subject compounds of concern, and the ARARs are determined to be protective, these requirements become the chemical-specific cleanup goals. However, as noted above, when ARARs are found not to be protective or are not available, the results of the risk assessment (i.e., health advisory levels) are used to establish the more stringent target cleanup goals.

Thus, the requirement that a remedial alternative meet chemical-specific ARARs does not ensure that the proposed alternative is protective, and thereby potentially acceptable. This can be determined only by: (1) evaluating the combined carcinogenic risk associated with the ARAR

limits for all chemicals at a given site (assuming additivity of effect in the absence of data on synergism or antagonism); (2) establishing that ARARs do not exceed USEPA RfDs for noncarcinogenic effects, and are sufficiently protective when multiple chemicals are present; (3) determining whether environmental effects (in addition to human health considerations) are adequately addressed by the ARARs; and (4) evaluating whether the ARARs adequately cover all significant pathways of human exposure identified in the preliminary risk evaluation. EPA has provided guidance on evaluating multiple exposure to chemicals (carcinogenic and noncarcinogenic effects) and on establishing acceptable exposure levels when no ARARs exist (USEPA 1986c, 1989a).

A listing of chemical-specific ARARs for all chemicals under investigation at the Indianan ANGB is provided in Section 4.

G.2.3 Toxicity Assessment

The objectives of the toxicity or hazard assessment are to evaluate the inherent toxicity of the compounds under investigation, and to identify and select toxicological measures for use in evaluating the significance of the exposure. In the development of these toxicological measures, available dose-response data are reviewed on the adverse effects to human and nonhuman receptors.

EPA derives RfDs and RfCs based on estimates of the no-observable-adverse-effect level (NOAEL) or lowest-observable-adverse-effect level (LOAEL) in humans or test animals. As follows:

$$RFD = \frac{NOAEL}{(UF \times MF)}$$

where:

NOAEL = No-observable-adverse-effect level (mg/kg body weight/day)

UF = Uncertainty factor (unitless)

MF = Modifying factor (unitless).

The NOAEL is the highest experimental dose at which there was no statistically significant increase in a toxicologically significant end point. Uncertainty factors (UFs) are intended to account for: (1) the variation in sensitivity among the members of the human population; (2) the uncertainty in extrapolating animal data to humans; (3) the uncertainty in extrapolation from data obtained in a study that is of less than lifetime exposure; and (4) the uncertainty in using LOAEL data rather than NOAEL data. Commonly, each of these factors is set equal to 10. The modifying factor (MF) is an additional optionally used factor, the magnitude of which reflects professional judgment regarding the quality of the data used in the toxicological assessment (e.g., the completeness of the overall data base and the number of animals tested).

The inhalation RfC methodology requires conversion of the NOAEL levels observed in animals to human equivalent concentrations (HECs) before the data sets and effects levels can be evaluated and compared. The inhalation RfC is derived as follows:

$$RfC = \frac{NOAEL_{[HEC]}}{(UF \times MF)}$$

where:

NOAEL_[HEC] = No-observable-adverse-effect level (mg/kg body weight/day) adjusted to human equivalent concentration

UF = Uncertainty factor (unitless)

MF = Modifying factor (unitless).

The NOAEL_{HEC} is the key datum obtained from the evaluation of the dose-response relationship. EPA is currently attempting to standardize its approach to determining RfCs. Final guidance has not yet been released by the Agency.

The inhalation RfCs are derived by EPA according to the Interim Methods for Development of Inhalation Reference Doses (EPA/600/8-88/066F August 1989). These methods were developed by Agency scientists in the Office of Research and Development and peer reviewed at a workshop/public meeting held at the U.S. EPA Environmental Research Center in Research Triangle Park on October 6, 1987. It was intended that these methods would be interim and that improvements in the supporting scientific data base and advancements in risk assessment extrapolation procedures would be incorporated on a regular basis.

The assessment of the potential for noncarcinogenic effects (i.e., the use of RfDs and RfCs in risk assessment) is based on the assumption of a threshold below which adverse health effects are not anticipated to occur. Carcinogenesis, however, is generally thought to be a phenomenon for which the presumption of threshold effects is inappropriate (USEPA 1989a). Therefore, EPA does not estimate an effects threshold for this class of chemicals. Alternately, EPA uses a two-part evaluation in which the subject chemical is first assigned a weight-of-evidence classification, and then a cancer potency (slope factor) is calculated.

The weight-of-evidence classification evaluates the evidence that a given chemical is a carcinogen in human and animal systems. These ratings are as follows:

- A: Human carcinogen
- B1: Probable human carcinogen limited human data are available
- B2: Probable human carcinogen sufficient data in animals, and inadequate or no evidence in humans
- C: Possible human carcinogen
- D: Not classifiable as to human carcinogenicity
- E: Evidence of noncarcinogenicity for humans.

EPA develops cancer slope factors, for oral exposure, for carcinogens that have been rated A, B1, B2, and C. The cancer slope factor is a plausible upper-bound estimate of the slope of the dose-response curve in the low dose range. It is interpreted as the probability of a cancer response per unit oral intake of a chemical over a lifetime. In risk assessment, the

cancer potency factor is used to estimate the excess lifetime probability of a carcinogenic effect occurring in exposed receptors.

As of January 1991, inhalation slope factors have been removed from the Integrated Risk Information System (IRIS) data base at the request of the Carcinogen Risk Assessment Verification Endeavor (CRAVE) Work Group. EPA notes that slope factors are expressed in terms of per (mg/kg)/day, and as such represent an ingestion risk. A unit risk factor is a dimensionless number expressed in terms of per (ug/cu.m)/day for air. According to EPA, an inhalation slope factor expressed as per (mg/kg)/day is not a logical application of the data. Converting an inhalation unit risk to a risk in terms of per (mg/kg)/day may be a misleading use of the data and cause users to assume a comparability between routes that is inappropriate. As specified by EPA:

"When dose-response data from both oral and inhalation studies are available for risk calculations, the oral slope factor is calculated directly from the oral data and represents the carcinogenic potential associated with 1 mg/kg/day of "administered body" dose. To calculate a slope factor from inhalation data, many assumptions must be made, including those for conversion between an air concentration and body dose. When pharmacokinetic modeling is applied to inhalation risk estimation, dose-response relationships are figured on the basis of internal or metabolized dose. A slope factor in terms of per (mg/kg)/day represents a back calculation using different absorption assumptions than the pharmacokinetic models. (IRIS Data Base January 1991)"

Following EPA guidance, inhalation unit risk factors should be used when available. In the absence of these measures, inhalation slope factors are adopted.

RfDs or slope factors have not been developed by EPA for the dermal exposure route. In the absence of these factors, the common practice has been use the available toxicity measures for the oral route of exposure. This approach has been adopted in the preliminary risk assessment of the Indianan ANGB waste sites. Note, however, that there is considerable uncertainty with the use of oral measures for the dermal exposure pathway. The results of risk assessment that incorporate these measures should not be interpreted as characterizing actual risks to human health via the dermal exposure pathway. The risk measures derived should be

considered only a screening-level tool for evaluating the relative significance of the observed levels of contamination in environmental media.

In evaluating the dermal pathway, EPA recommends expressing chemical intake as absorbed dose and adjusting the oral toxicity measures also to reflect absorbed dose (USEPA 1989a). Most of the toxicity measures available from EPA are expressed as administered dose (i.e., intake) rather than dose at the tissue level (i.e., absorbed dose). The adjustment of the oral toxicity measure can be accomplished only if sufficient data are available in the principal laboratory studies, on oral absorption efficiency in the species on which the toxicity measures are based. EPA notes that exposure estimates for absorption efficiency should not be adjusted if the toxicity values are based on administered doses (USEPA 1989a).

Thus, in conducting an assessment of risk of exposure to chemicals released from waste sites, several toxicity measures of importance may be identified:

- RfDs for oral exposure acceptable intake values for subchronic and chronic exposure (noncarcinogenic effects)
- RfDs for inhalation exposure acceptable intake values for sub-chronic and chronic exposure (noncarcinogenic effects)
- Carcinogenic slope factors for oral exposure
- Unit risk factors for evaluating cancer risk via inhalation exposure, or cancer slope factors for inhalation exposure in the absence of unit risk measures.

The primary sources of information for these data is the IRIS data base. IRIS is a computer-housed catalog of EPA risk assessment and risk management information for chemical substances. Data in the IRIS system are regularly reviewed and updated monthly. If toxicity measures are not available on IRIS, EPA recommends use of the EPA ORD Health Effects Assessment Summary Tables (HEAST: FY 1991. USEPA 1991d) as the second most current source of information. Science Applications International Corporation (SAIC) has on-line access to the IRIS data base and receives the quarterly HEAST publications from EPA ORD. Therefore, the risk assessment is based on the most up-to-date EPA-approved toxicity measures available for waste site evaluation.

A summary of the toxicity measures used in the evaluation of the waste sites at is presented in Section 4.

G.2.4 Risk Characterization

The last step in the human health risk assessment is risk characterization. This is the process of integrating the results of the exposure and hazard (toxicity) assessment (i.e., of comparing estimates of dose with appropriate toxicological endpoints to determine the likelihood of adverse effects in exposed populations). It is common practice to consider risk characterization separately for carcinogenic and noncarcinogenic effects. This is due to a fundamental difference in the way organisms typically respond following exposure to carcinogenic or noncarcinogenic agents. For noncarcinogenic effects, toxicologists recognize the existence of a threshold of exposure below which there is only a very small likelihood of adverse health impacts in an exposed individual. Exposure to carcinogenic compounds, however, is not thought to be characterized by the existence of a threshold. Rather, all levels of exposure are considered to carry a risk of adverse effect.

The procedure for calculating risk associated with exposure to carcinogenic compounds has been established by EPA (USEPA 1986b,c; USEPA 1989a). A non-threshold, dose-response model is used to calculate a cancer slope (potency) factor (which mathematically is the slope of the dose-response curve) for each chemical. To derive an estimate of risk, the cancer slope factor (CSF - defined below) is then multiplied by the estimated chronic daily dose experienced by the exposed individual:

where:

Risk = Upper-bound estimate of the excess lifetime cancer risk to an individual (unitless probability)

CDI = Chronic daily dose averaged over a 70-year period (mg/kg body weight/day)

CSF = 95% upper-bound estimate of the slope of the dose-response curve (mg/kg body weight/day)⁻¹.

The slope factor CSF is used to convert estimates of daily intake or dose averaged over a lifetime, to incremental excess risk of an individual developing cancer. EPA notes that use of this equation assumes that the dose-response relationship is linear in the low-dose portion of the multistage model dose-response curve (USEPA 1989a: A linearized multistage dose response model is most commonly used by EPA in deriving the slope estimates.) Given this assumption, the slope factor is a constant and risk is directly proportional to intake.

EPA indicates that use of the linear equation (above) for risk estimation is valid only at risk levels $< 1 \times 10^{-2}$. The Agency recommends use of the following equation (based on the "one-hit" model of carcinogenesis) as an alternative at sites where exposure and intakes are projected to be quite high, and risk levels may exceed 1×10^{-2} .

Risk =
$$1 - \exp(-CDI \times CSF)$$

In evaluating risk of exposure to more than one carcinogen, the risk measure for each compound may be summed (in the absence of information on antagonistic or synergistic effects) to provide an overall estimate of total carcinogenic risk (USEPA 1989a).

$$Risk_{T} = \sum_{i=1}^{n} Risk_{i}$$

where:

Risk_T = The combined excess lifetime cancer risk across chemical carcinogens

Risk_i = The risk estimate for the ith chemical of n chemicals under evaluation.

This is conducted for each source of environmental release, associated exposure pathway, and receptor group at risk of exposure. Population risks are derived by multiplying the overall

risk level (summed for all subject chemicals) by the number of people exposed. This would yield a measure of the additional incidence of developing cancer (i.e., additional number of new cases) in the exposed population over a lifetime (i.e., 70 years) of exposure.

The traditionally accepted practice of evaluating exposure to noncarcinogenic compounds has been to experimentally determine a NOAEL and to divide this by a safety factor to establish an acceptable human dose, for example, acceptable daily intake or RfD (NRC 1983). The RfD is then compared to the average daily dose experienced by the exposed population to obtain a measure of concern for adverse noncarcinogenic effects:

$$HQ = \frac{Dose}{RfD}$$

where:

HQ = Hazard Quotient: potential for adverse noncarcinogenic effects

Dose = Average daily dose for subchronic or chronic exposure (mg/kg body weight/day)

RfD = Acceptable intake for subchronic or chronic exposure (mg/kg body weight/day).

Dose and the RfD are expressed in the same units and are based upon common exposure periods (i.e., chronic, subchronic, or shorter-term). If the HQ is > 1, there may be potential for adverse noncarcinogenic effects at the given exposure/dose level. Guidelines for evaluating exposure to mixtures of noncarcinogens is presented by EPA (USEPA 1986b, 1989a). Essentially, this involves summing the HQ (ratios of daily dose/RfD) for all chemicals under evaluation. If the sum of these ratios, called the Hazard Index (HI), is > 1, there is the potential for adverse noncarcinogenic effects. Under these circumstances, EPA recommends segregating the compounds into groups of like or common toxicological effects, and again evaluating the potential for manifestation of the various adverse health effects identified.

G.2.5 Evaluation of Uncertainty

It is important to emphasize that the preliminary risk evaluation is primarily a decision making tool for use in assessing the need for remedial action. The results of risk evaluations are presented in terms of the potential for adverse effects based upon a number of very conservative assumptions.

Some discussion of the uncertainties associated with each step in the risk assessment has been provided in the body of the report (Section 4). The uncertainties in each component of the risk evaluation process are compounded in the overall calculation to yield final estimates with wide uncertainty ranges. For example, if an estimate of the average daily dose for a compound has an uncertainty range a factor of 10 above and below the point estimate used in the exposure assessment, the uncertainty range for the final estimated health effect must be at least that large.

The sources of uncertainty may be site-related (i.e., limited data are available), or may be associated with the assumptions and procedures used during the risk evaluation. If limited data are available, one sample with an extreme concentration (high or low) may bias the exposure estimates. With a small data set that cannot meaningfully be evaluated statistically, it is very difficult to identify and eliminate anomalous results.

The final quantitative measures of the potential for adverse affects must be recognized as point estimates within a distribution of potential outcomes. The estimates of the potential for human health effects at the Indiana ANGB are necessarily uncertain. However, the use RME assumptions (as recommended by EPA: USEPA 1989a) in this study, ensures a conservative estimate of risk that is protective of human health.

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APPENDIX H
GEOTECHNICAL ANALYTICAL RESULTS

122nd Tactical Fighter Wing, Indiana Air National Guard, Fort Wayne, Indiana Table H-1. Geotechnical Testing Results of Soil at

| Site | Sample ID | Sample Depth (feet BLS) | Depth of Water During Drilling (feet BLS) | % Sand | % Silt | % Clay | Textural Classification |
|------------|-----------|----------------------------|-------------------------------------------------|--------|--------|--------|----------------------------|
| Background | BG1 | 34 - 35 | 37 | 25 | 22 | 23 | Clay |
| Site 1 | SB1-1-6 | 14.5 - 16.0 | 34 | 35 | 30 | 35 | Clay Loam |
| Site 4 | SB4-1-4 | 24 - 25.5 | 34 | 19 | 30 | 51 | Clay |
| Site 4 | SB4-1-5 | 19 - 21.5 | 34 | 93 | 2 | 5 | Sand |
| Site 3 | SB3-1-8 | 34.5 - 36 | 38 | 23 | 26 | 51 | Clay |

| Site | Sample ID | Sample Depth (feet BLS) | Depth of Water During Drilling (feet BLS) | Hd % | % Organic Matter* | % Moisture ** |
|------------|-----------|----------------------------|-------------------------------------------|------|----------------------|---------------|
| Background | BG1 | 34 - 35 | 37 | 8.2 | 2.31 | 15.0 |
| Site 1 | SB1-1-6 | 30 - 31.5 | 34 | 8.3 | 1.48 | 7.7 |
| Site 4 | SB4-1-4 | 14.5 - 16.0 | 34 | 8.2 | 1.98 | 14.8 |
| Site 4 | SB4-1-5 | 19 - 21.5 | 34 | 7.7 | 0.55 | 7.3 |
| Site 3 | SB3-1-8 | 34.5 - 36 | 38 | 8.2 | 2.09 | 17.0 |

By Walkley-Black Titration

Note: Samples for Geotechnical Analyses were collected just above the water table, except for samples from Site 4. At Site 4, borings were not drilled to the water table. Two samples were submitted from Site 4 to represent two distinct lithologies observed during drilling.

^{** @ 100} degrees Celsius